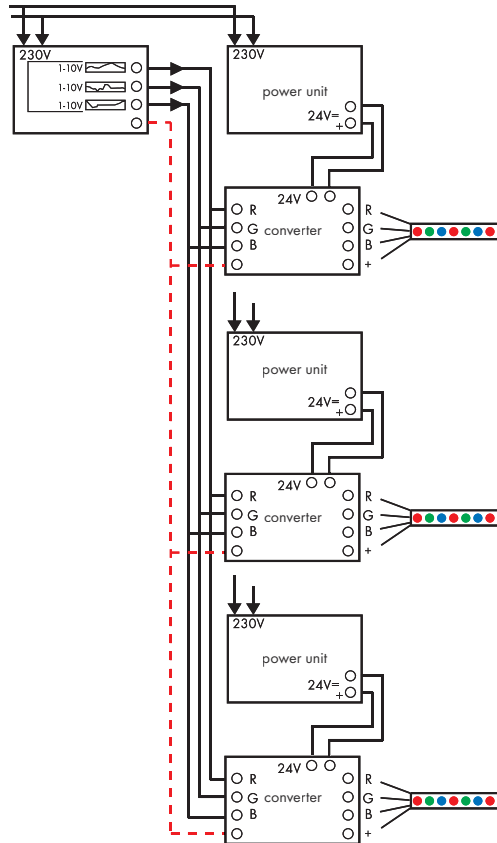


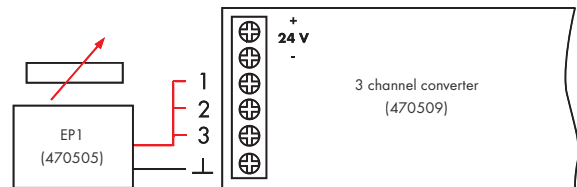
SCHEMATIC DIAGRAM

Parallel connection by larger loads.
By an output of >50W a new feed-in must be made.



SCHEMATIC DIAGRAM

Application with EP1 dimmer 1-10V and 3 channel Converter.



PWM CONVERTER 1 CHANNEL 12V=/24V=



Article No.	Description	Voltage primary	Voltage secondary	Output power per channel	Specification	Length in cm	Width in cm	Height in cm	
470550	PWM converter 1 channel	12V DC 24V DC	12V DC 24V DC	50W max. 100W max.	ta: 50°C/tc: 70°C	170	4,0	3,0	
For dimming of 12V DC and 24V DC single colour strip applications. Independent converter. Control voltage: 1-10V. Output: 4,1A.									

PWM CONVERTER 3 CHANNEL 12V=/24V=



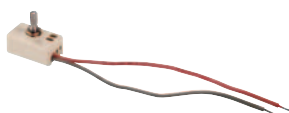
Article No.	Description	Voltage primary	Voltage secondary	Output power per channel	Specification	Length in cm	Width in cm	Height in cm	
470509	PWM converter 3 channel	12V DC 24V DC	12V DC 24V DC	16,6W 33,3W	ta: 50°C/tc: 70°C	170	4,0	3,0	
For controlling of 12V DC and 24V DC among others for RGB strips. Independent converter. Control voltage: 3x 1-10V. Output: 3x 1,4A max.									

PWM CONVERTER 3 CHANNEL 350mA



Article No.	Description	Voltage primary	Voltage secondary	Output power per channel	Specification	Length in cm	Width in cm	Height in cm	
470560	PWM converter 3 channel	24V DC	350mA	7W	ta: 50°C/tc: 70°C	170	4,0	3,0	
For controlling of 350mA applications with max. 5x 1W PowerLED per channel. Independent converter. Control voltage: 3x 1-10V. Output: 3x 350mA max.									

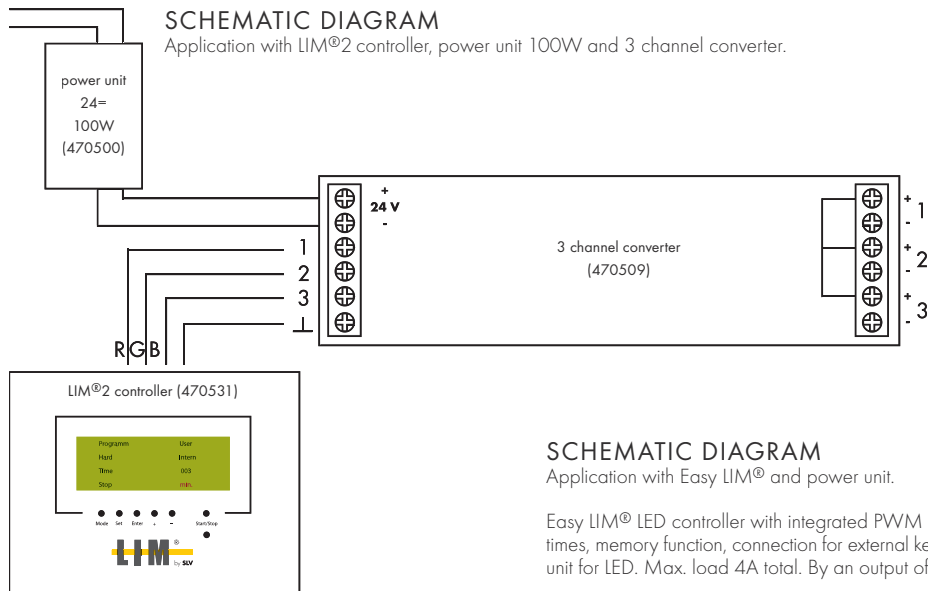
EP1 DIMMER 1-10V



Article No.	Description	Output	Length in cm	Width in cm	Height ¹ in cm	Height ² in cm	Axial-Ø in cm	Weight
470505	EP1 dimmer 1-10V	10W max.	2,3	3,9	2,0	3,6	0,6	0,04 kg
For the connection to controllers with 1-10V control voltage.								

SCHEMATIC DIAGRAM

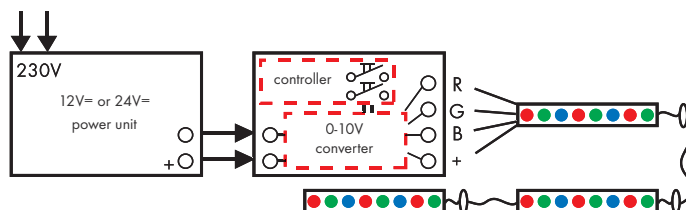
Application with LIM[®]2 controller, power unit 100W and 3 channel converter.



SCHEMATIC DIAGRAM

Application with Easy LIM[®] and power unit.

Easy LIM[®] LED controller with integrated PWM controller, 8 fixed programmes and times, memory function, connection for external keys, connection to 12V= or 24V= power unit for LED. Max. load 4A total. By an output of >50W a new feed-in must be made.



LIM[®]2 CONTROLLER



Article No.	Description	Colour	Voltage	Control voltage	Width in cm	Height in cm	Depth in cm	
470531	LIM [®] 2 Controller	alu natural	230V AC	4x 1-10V	11,7	3,7	9,7	230~
Accessory/Included parts: Flush-mounted housing (incl.), IR-receiver at the front of the housing (incl.). With LCD-display. Optionally controllable via remote control [470530]. Flush-mounted installation is possible. Short circuit protected.								

The LIM[®]2 4-channel controller makes setting and calling up of colour of light or light level possible on keystrokes. 4 groups of lights with digital operating devices for a control voltage of 1-10 V (e.g. fluorescent bulbs, low-voltage halogen, high volt halogen bulbs or LED applications) can be controlled, 4 light sequences pre-programmed can also be called up by keystrokes. Also a dynamic operational sequence of the setup light scenes is possible owing to selectable standing and blend over times. 4 different sequencing programs with 8 light scenes each are already programmed in the system. Further features are panic configuration, external switching entrance, variable time intervals. It is a comfortable system, whereby no prior knowledge is needed to operate it.

REMOTE CONTROL for LIM[®]2 controller



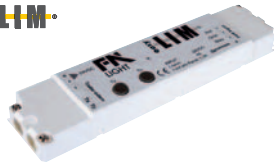
Article No.	Description	Accessory/Included parts	Length in cm	Width in cm	Height in cm	
470530	Remote control	2x AA 1,5V Batteries (excl.)	17,8	4,3	2,0	2x AA 1,5V
Infrared remote control to control the LIM [®] 2 controller [470531].						

LED POWER UNIT 100W, dimmable, 24V=



Article No.	Description	Voltage primary	Voltage secondary	Output power per channel	Specification	Length in cm	Width in cm	Height in cm
470540	LED power unit 100W dimmable	230V AC	24V DC	33W	ta: 50°C/tc: 70°C	18,5	13,0	3,5
Dimmable with EP1 dimmer [470505] see page 587 or LIM [®] 2 controller [470531] see above. Dimming range: 0%-100%. Control voltage: 3x 1-10V.								

EASY LIM® LED CONTROLLER



Article No.	Description	Voltage primary	Voltage secondary	Output power per channel	Length in cm	Width in cm	Height in cm	
470503	LED Controller	12V DC 24V DC	12V DC 24V DC	15W max. 31W max.	18,5	4,5	1,9	

Accessory/Included parts: Integrated PWM converter to RGB output signal (incl.).
Connection to 12V= or 24V= LED power unit. Eight fixed programmes and times. Memory function. Connection for external keys.
Max. load 4A total.

EASY LIM® PRO RF MASTER CONTROLLER radio, 12V=/24V=, 3 channel



Article No.	Description	Voltage primary	Voltage secondary	Output power per channel	Specification	Length in cm	Width in cm	Height in cm
470600	Master controller radio	12V DC 24V DC	12V DC 24V DC	16,5W 33W	ta: 50°C/tc: 60°C	16,6	3,9	3,3

Accessory/Included parts: Power unit (excl.). Remote control (470601) optional (excl.).
17 fixed programmes, pause function, fade speed and brightness adjustable, on-off function, memory function by mains disconnection.
Receiving frequency by remote control operation can be adjusted via dip switches.
Output 3x 1,38A

EASY LIM® PRO RF SLAVE radio, 12V=/24V=, 3 channel



Article No.	Description	Voltage primary	Voltage secondary	Output power per channel	Specification	Length in cm	Width in cm	Height in cm
470602	Slave controller, radio	12V DC 24V DC	12V DC 24V DC	16,5W 33W	ta: 50°C/tc: 60°C	16,6	3,9	3,3

Accessory/Included parts: Power unit (excl.).
For extension of the Easy LIM® Pro RF Master controller (470600). For LED products with 12V= or 24V= constant voltage.
Output 3x 1,38A

EASY LIM® PRO RF MASTER CONTROLLER radio, 350mA, 3 channel



Article No.	Description	Voltage primary	Voltage secondary	Output power per channel	Specification	Length in cm	Width in cm	Height in cm
470610	Master controller, radio	24V DC	350mA	5W max.	ta: 50°C/tc: 60°C	16,6	3,9	3,3

Accessory/Included parts: Power unit (excl.). Remote control (470601) optional (excl.).
17 fixed programmes, pause function, fade speed and brightness adjustable, on-off function, memory function by mains disconnection.
Receiving frequency by remote control operation can be adjusted via dip switches.
For LED RGB applications with PowerLED 350mA constant current.

EASY LIM® PRO RF SLAVE CONTROLLER radio, 350mA, 3 channel



Article No.	Description	Voltage primary	Voltage secondary	Output power per channel	Specification	Length in cm	Width in cm	Height in cm
470612	Slave controller, radio	24V DC	350mA	5W max.	ta: 50°C/tc: 60°C	16,6	3,9	3,3

Accessory/Included parts: Power unit (excl.).
For extension of the Easy LIM® Pro RF Master controller (470610). For LED products with 350mA constant current. Independent converter.

RADIO TRANSMITTER for Easy LIM® Pro RF, radio



Article No.	Description	Voltage	Length in cm	Width in cm	Height in cm	Battery
470601	Radio transmitter	12V DC	8,5	3,7	1,7	1x 12V

Accessory/Included parts: 1x 12V-Battery e.g. LRV08 (excl.) see below.
Radio remote control to control the Easy LIM® Pro RF Master controller (470600/-10). Transmitting frequency can be adjusted via dip switches.

BATTERY for Radio transmitter (470601)



Article No.	Description	Voltage
470620	Battery LRV08	12V DC



Detail picture: Control unit of the Power LIM®2 RGB master controller.

POWER LIM®2 RGB Master controller 24V=



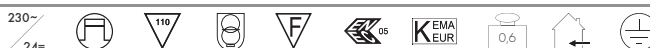
Article No.	Description	Voltage primary	Voltage secondary	Output power per channel	Specification	Power factor	Length in cm	Width in cm	Height in cm
470581	Master controller	230V AC	24V DC	3x 20W	ta: 50°C/tc: 60°C	0,95 λ	18,5	13,0	3,5

Accessory/Included parts: Integrated power unit 60W (incl.). Secondary cable length: 30 m max.

Extendable up to 9 slave controllers.

All constant voltage and constant current appliances of this series are compatible and connectable with each other.

POWER LIM®2 RGB Slave controller 24V=



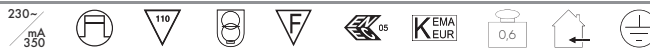
Article No.	Description	Voltage primary	Voltage secondary	Output power per channel	Specification	Power factor	Length in cm	Width in cm	Height in cm
470582	Slave controller	230V AC	24V DC	3x 20W	ta: 50°C/tc: 60°C	0,95 λ	18,5	13,0	3,5

Accessory/Included parts: Integrated power unit 60W (incl.). Control line: 1,2 m (incl.). Secondary cable length: 30 m max.

For extension of the Master controller (470581).

All constant voltage and constant current appliances of this series are compatible and connectable with each other.

POWER LIM®2 RGB Master controller 350mA



Article No.	Description	Voltage primary	Voltage secondary	Output power per channel	Specification	Power factor	Length in cm	Width in cm	Height in cm
470583	Master controller	230V AC	350mA	3x 7W	ta: 50°C/tc: 60°C	0,95 λ	18,5	13,0	3,5

Accessory/Included parts: Integrated controller for 1W PowerLED, 21W max. (incl.). Secondary cable length: 20 m max.

Extendable up to 9 slave controllers.

The first two slave controller can be provided with the voltage supply of the master controller.

All constant voltage and constant current appliances of this series are compatible and connectable with each other.

POWER LIM®2 RGB Slave controller 350mA



Article No.	Description	Voltage primary	Voltage secondary	Output power per channel	Specification	Length in cm	Width in cm	Height in cm
470584	Slave controller	24V DC	350mA	3x 7W	ta: 50°C/tc: 65°C	17,5	7,8	3,5

Accessory/Included parts: Power unit (excl.). Control line: 1,2 m (incl.). Secondary cable length: 20 m max.

For extension of the Master controller (470583).

All constant voltage and constant current appliances of this series are compatible and connectable with each other.

Max. 5x 1W PowerLED, max. 21W.

REMOTE CONTROL for Power LIM®2 Master controllers



Article No.	Description	Length in cm	Width in cm	Height in cm
470520	Remote control	178	4,8	1,9

Accessory/Included parts: Batteries (excl.), IR-receiver (incl.)

Infrared remote control to control the Power LIM®2 master controllers (470581/-3).



LED DRIVER 3W, 350mA



Article No.	Description	Constant current secondary	Output	Number of LEDs	Specification	Length in cm	Width in cm	Height in cm
464108	LED driver 3W	350mA	1-3W	1-3 LED 1W	ta: 50°C/tc: 70°C	5,5	3,9	2,0
With strain relief. Fits into connection box [229260] see page 599.								

LED DRIVER 12W, 350mA



Article No.	Description	Constant current secondary	Output	Number of LEDs	Specification	Length in cm	Width in cm	Height in cm
464110	LED driver 12W	350mA	6-12W	5-9 LED 1W	ta: 50°C/tc: 70°C	16,7	3,9	3,0
With strain relief. Fits into transformer box IP67 [229261] see page 599. With socket for connector strip [111850/-60] see page 593.								

LED DRIVER 18W, 350mA



Article No.	Description	Constant current secondary	Output	Number of LEDs	Specification	Length in cm	Width in cm	Height in cm
464111	LED driver 18W	350mA	10-18W	9-15 LED 1W	ta: 50°C/tc: 70°C	15,3	6,7	3,5
With strain relief. With socket for connector strip [111850/-60] see page 593.								

LED DRIVER 3W, 700mA



Article No.	Description	Constant current secondary	Output	Number of LEDs	Specification	Length in cm	Width in cm	Height in cm
464200	LED driver 3W	700mA	3W	1 LED 3W	ta: 50°C/tc: 70°C	5,5	4,0	2,0
With strain relief. Fits into connection box [229260] see page 599.								

LED DRIVER 12W, 700mA



Article No.	Description	Constant current secondary	Output	Number of LEDs	Specification	Length in cm	Width in cm	Height in cm
464202	LED driver 12W	700mA	12W	2-4 LED 3W	ta: 50°C/tc: 70°C	16,7	3,9	3,0
With strain relief.								

LED DRIVER 18W, 700mA



Article No.	Description	Constant current secondary	Output	Number of LEDs	Specification	Length in cm	Width in cm	Height in cm
464201	LED driver 18W	700mA	18W	4-6 LED 3W	ta: 50°C/tc: 70°C	15,3	6,7	3,5
With strain relief.								

LED DRIVER 15W, 1200mA



Article No.	Description	Constant current secondary	Output	Number of LEDs	Specification	Length in cm	Width in cm	Height in cm
464210	LED driver 15W 1200mA	1200mA	15W	1 LED 15W	ta: 50°C/tc: 75°C	16,7	3,9	3,0
Only for operation with 15W LED Downlight [160401/-02/-11/-12] and [160521/-22/-31/-32] see page 347.								
Independent converter. With strain relief.								



LED DRIVER 11W, 350mA, dimmable



Article No.	Description	Constant current secondary	Output	Number of LEDs	Specification	Power factor	Length in cm	Width in cm	Height in cm
464112	LED driver 11W dimmable	350mA	11W max.	9 LED 1W	ta: 50°C/tc: 75°C	0,55 λ	16,5	4,0	3,0

With strain relief. Dimmable with EP1 Dimmer [470505] see page 587.

LED DRIVER 10W, 700mA, dimmable with trailing-edge phase dimmer



Article No.	Description	Constant current secondary	Output	Number of LEDs	Specification	Power factor	Length in cm	Width in cm	Height in cm
464001	LED driver 10W dimmable	700mA	3x 3W	1-3 LED 3W	ta: 50°C/tc: 80°C	0,95 λ	12,0	4,5	2,0

Dimmable with trailing-edge phase dimmer. Dimming range: 100% - 25%.

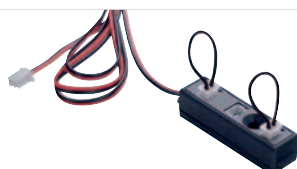
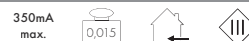
LED DRIVER 30W, 700mA, dimmable with trailing-edge phase dimmer



Article No.	Description	Constant current secondary	Output	Number of LEDs	Specification	Power factor	Length in cm	Width in cm	Height in cm
464002	LED driver 30W dimmable	700mA	10x 3W	5-10 LED 3W	ta: 50°C/tc: 85°C	0,95 λ	18,0	4,5	2,8

Dimmable with trailing-edge phase dimmer. Dimming range: 100% - 25%.

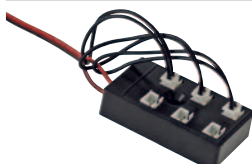
CONNECTOR STRIP 3 outlets



Article No.	Description	Colour	Output	Length in cm	Width in cm	Height in cm	Supply line-L in m
111850	Connector strip 3 outlets	black	350mA max.	5,2	1,4	1,3	1,0

Series connection. 3 outlets incl. 2 bridges.

CONNECTOR STRIP 6 outlets



Article No.	Description	Colour	Output	Length in cm	Width in cm	Height in cm	Supply line-L in m
111860	Connector strip 6 outlets	black	350mA max.	5,2	3,0	1,3	1,5

Series connection. 6 outlets incl. 3 bridges.

LED POWER UNIT 12W, 12V=



Article No.	Description	Voltage secondary	Output power	Specification	Length in cm	Width in cm	Height in cm
470507	LED power unit 12W	12V DC	12W	ta: 50°C/tc: 85°C	8,5	4,0	2,3

LED POWER UNIT 20W, 12V=



Article No.	Description	Voltage secondary	Output power	Specification	Length in cm	Width in cm	Height in cm
470541	LED power unit 20W	12V DC	20W	ta: 50°C/tc: 75°C	16,6	3,9	3,3

LED POWER UNIT 36W, 12V=



Article No.	Description	Voltage secondary	Output power	Specification	Length in cm	Width in cm	Height in cm
470543	LED power unit 36W	12V DC	36 W	ta: 50°C/tc: 75°C	12,9	7,5	3,2

LED POWER UNIT 60W, 12V=



Article No.	Description	Voltage secondary	Output power	Specification	Length in cm	Width in cm	Height in cm
470508	LED power unit 60W	12V DC	60W	ta: 50°C/tc: 75°C	18,2	8,8	3,5

LED POWER UNIT 12W, 24V=



Article No.	Description	Voltage secondary	Output power	Specification	Length in cm	Width in cm	Height in cm
470502	LED power unit 12W	24V DC	12W	ta: 50°C/tc: 85°C	8,5	4,0	2,3

LED POWER UNIT 20W, 24V=



Article No.	Description	Voltage secondary	Output power	Specification	Length in cm	Width in cm	Height in cm
470542	LED power unit 20W	24V DC	20W	ta: 50°C/tc: 75°C	16,3	3,9	3,3

LED POWER UNIT 36W, 24V=



Article No.	Description	Voltage secondary	Output power	Specification	Length in cm	Width in cm	Height in cm
470544	LED power unit 36W	24V DC	36W	ta: 50°C/tc: 75°C	12,9	7,5	3,2

LED POWER UNIT 60W, 24V=



Article No.	Description	Voltage secondary	Output power	Specification	Length in cm	Width in cm	Height in cm
470506	LED power unit 60W	24V DC	60W	ta: 50°C/tc: 70°C	17,5	7,8	3,5

LED POWER UNIT 100W, 24V=



Article No.	Description	Voltage secondary	Output power	Specification	Length in cm	Width in cm	Height in cm
470500	LED power unit 100W	24V DC	100W	ta: 50°C/tc: 70°C	18,2	8,8	3,5

LED POWER UNIT 60W, dimmable, 12V=



Article No.	Description	Voltage secondary	Output power per channel	Specification	Length in cm	Width in cm	Height in cm
470539	LED power unit 60W dimmable	12V DC	3x 20W	ta: 50°C/tc: 75°C	18,5	13,0	3,5
Dimmable with EP1 Dimmer [470505] see page 587 or LIM®2 controller [470531] see page 588. Dimming range: 0% -100%. Control voltage: 3x 1-10V. Output: 3x 1,66A max.							

LED POWER UNIT 100W, dimmable, 24V=



Article No.	Description	Voltage secondary	Output power per channel	Specification	Length in cm	Width in cm	Height in cm
470540	LED power unit 100W dimmable	24V DC	3x 33W	ta: 50°C/tc: 70°C	18,5	13,0	3,5
Dimmable with EP1 Dimmer [470505] see page 587 or LIM®2 Controller [470531] see page 588. Dimming range: 0% -100%. Control voltage: 3x 1-10V. Output: 3x 1,4A max.							

LED WALL POWER SUPPLY 16W, 24V=



Article No.	Description	Voltage secondary	Output power	Specification	Length in cm	Width in cm	Height in cm
470571	LED wall power supply 16W	24V DC	16W	ta: 50°C/tc: 70°C	8,8	4,2	9,1
Secondary cable length: 2 m with open cable end.							

CONVENT. BALLAST PROFI 70/150



Article No.	Description	Voltage	Output	Protection in case of error	Length in cm	Width in cm	Height in cm	Weight
470070	Ballast Profi-KVG 70	230V AC	70W	at 115°C	17,5	7,2	6,1	1,32 kg
470150	Ballast Profi-KVG 150	230V AC	150W	at 130°C	21,4	7,2	6,1	2,25 kg
Accessory/Included parts: Strain relief (incl.), Ignition device with automatic switchoff (incl.), End of Life shutoff (incl.) For HIT, HIT-DE or HIT-CE. Not suitable for operation with HIPAR, Britespot ES111 and CDM-R 111 bulbs. Distance to lamp: 10 m max. Only usable with high-voltage connection line.								

ELECTRONIC BALLAST HID, 20W



Article No.	Description	Voltage	Output	Length in cm	Width in cm	Height in cm
470350	EVG HQI/CDM	230V AC	20W	16,6	3,9	3,3
For Precise™ Constant Color™, MR16 and CMH MR16 Precise™ Constant Color™, GX10 bulbs. Not suitable for operation with Philips CDM, 20W bulbs. Short circuit protected. Only usable with high-voltage connection line.						

ELECTRONIC BALLAST HID, 35W



Article No.	Description	Voltage	Output	Power factor	Specification	Ignition voltage	Length in cm	Width in cm	Height in cm
470361	EVG 35W	230V AC	35W	0,98 λ	ta: 50°C/tc: 75°C	3,5 kv	20,0	3,9	3,0
For HID bulbs 35W. Only usable with high-voltage connection line.									

ELECTRONIC BALLAST HID, 35W, 70W, 150W



Article No.	Description	Voltage	Output	Length in cm	Width in cm	Height in cm	Weight
470360	EVG HQI/CDM 35W	230V AC	35W	17,3	7,7	3,1	0,6 kg
470370	EVG HQI/CDM 70W	230V AC	70W	17,3	7,7	3,1	0,6 kg
470380	EVG HQI/CDM 150W	230V AC	150W	19,2	8,7	3,6	0,6 kg
Flicker-free light. Extension of the operating life of up to 50%. Automatic shut-off in case of defective or missing bulb. Secondary cable length: 1 m max. Only usable with high-voltage connection line.							

CONNECTION LINE for HID application



Article No.	Description	Line length in m	Ignition voltage resistant up to
961062	High-voltage connection line	2,0	5KV
Note: For HQI/CDM ballast SO-2GMH2G-J 3x 1 mm ²			

Conventional transformers should always be working to 80% capacity. The here illustrated transformers can be dimmed with leading-edge phase dimmer. In dimmed phase a minor operating noise can be possible. Please adhere to the manufacturers guidelines.

CONVENTIONAL TRANSFORMER MANTA 200, 300

230~
12~ 200 VA 300 VA



Article No.	Description	Colour	Voltage	Output	Secondary fused	Ø in cm	Height in cm	Weight
455202	Manta 200	chrome	230V AC/12V AC	200VA	1x 20A	20,0	8,0	2,75 kg
455209	Manta 200	silver grey	230V AC/12V AC	200VA	1x 20A	20,0	8,0	2,75 kg
455302	Manta 300	chrome	230V AC/12V AC	300VA	2x 15A	20,0	8,0	3,8 kg
455309	Manta 300	silver grey	230V AC/12V AC	300VA	2x 15A	20,0	8,0	3,8 kg

TRANSFORMER 100VA, 200VA

230~
12~ 100 VA 200 VA



Article No.	Description	Colour	Voltage	Output	Ø in cm	Height in cm
138812	Toroidal transformer 100VA	chrome	230V AC/12V AC	100VA	12,5	9,5
138822	Toroidal transformer 200VA	chrome	230V AC/12V AC	200VA	15,5	11,5

ARTE 300

230~
12~ 300 VA



Article No.	Description	Colour	Voltage	Output	Ø in cm	Height in cm
167032	Toroidal transformer Arte 300	chrome	230V AC/12V AC	300VA	16,0	9,5
167039	Toroidal transformer Arte 300	silver grey	230V AC/12V AC	300VA	16,0	9,5

IP44 TRANSFORMER 10VA/12V~

230~
12~ 10 VA



Article No.	Description	Voltage	Output	Length in cm	Width in cm	Height in cm
451010	IP44 Transformer 10VA	230V AC/12V AC	10VA	5,5	8,0	5,0
Accessory/Included parts: Plug (incl.)						
Prime conductor-L: 2 m, secondary conductor-L: 2 m.						

IP44 TRANSFORMER 60VA/12V~

230~
12~ 60 VA



Article No.	Description	Voltage	Output	Length in cm	Width in cm	Height in cm
227160	IP44 Transformer 60VA	230V AC/12V AC	60VA	6,0	10,0	6,3
Accessory/Included parts: Plug (incl.)						
Prime conductor-L: 2 m, secondary conductor-L: 2 m.						

IP44 TRANSFORMER 150VA/12V~

230~
12~ 150 VA



Article No.	Description	Voltage	Output	Length in cm	Width in cm	Height in cm
227150	IP44 Transformer 150VA	230V AC/12V AC	150VA	8,0	11,0	7,5
Accessory/Included parts: Plug (incl.)						
Prime conductor-L: 2 m, secondary conductor-L: 2 m.						

ROUND TRANSFORMER 20VA/12V~

230~
12~ 20 VA



Article No.	Description	Voltage	Output	Specification	Ø in cm	Height in cm
451021	Round transformer 20VA	230V AC/12V AC	20VA	ta: 40°C	5,0	6,5
Prime conductor-L: 25 cm, secondary conductor-L: 25 cm. Short circuit protected.						

ROUND TRANSFORMER 35VA/12V~



Article No.	Description	Voltage	Output	Specification	Ø in cm	Height in cm
451022	Round transformer 35VA	230V AC/12V AC	35VA	ta: 40°C	5,7	8,0
Prime conductor-L: 30 cm, secondary conductor-L: 30 cm. Short circuit protected.						

ROUND TRANSFORMER 20VA/24V~



Article No.	Description	Voltage	Output	Specification	Ø in cm	Height in cm
452021	Round transformer 20VA	230V AC/24 AC	20VA	ta: 40°C	5,0	6,5
Prime conductor-L: 25 cm, secondary conductor-L: 25 cm. Short circuit protected.						

CONVENTIONAL TRANSFORMER 60VA/12V~



Article No.	Description	Voltage	Output	Length in cm	Width in cm	Height in cm
451060	C.-transformer 60VA	230V AC/12V AC	60VA	6,0	10,0	6,3
Accessory/Included parts: Primary fuse (incl.)						
Prime conductor-L: 25 cm, secondary conductor-L: 25 cm.						

CONVENTIONAL TRANSFORMER 105VA/12V~



Article No.	Description	Voltage	Output	Length in cm	Width in cm	Height in cm
451105	C.-transformer 105VA	230V AC/12V AC	105VA	11,0	7,5	8,0
Accessory/Included parts: Primary fuse (incl.)						
Prime conductor-L: 25 cm, secondary conductor-L: 25 cm.						

CONVENTIONAL TRANSFORMER 150VA/12V~



Article No.	Description	Voltage	Output	Length in cm	Width in cm	Height in cm
451150	C.-transformer 150VA	230V AC/12V AC	150VA	8,0	11,0	8,0
Accessory/Included parts: Primary fuse (incl.)						
Prime conductor-L: 25 cm, secondary conductor-L: 25 cm.						

CONVENTIONAL TRANSFORMER 250VA/12V~



Article No.	Description	Voltage	Output	Length in cm	Width in cm	Height in cm
451250	C.-transformer 250VA	230V AC/12V AC	250VA	9,0	13,0	10,5
Accessory/Included parts: Primary fuse (incl.)						
Prime conductor-L: 25 cm, secondary conductor-L: 25 cm.						

CONVENTIONAL TRANSFORMER 300VA/12V~



Article No.	Description	Voltage	Output	Length in cm	Width in cm	Height in cm
451301	C.-transformer 300VA	230V AC/12V AC	300VA	9,0	13,0	11,0
Accessory/Included parts: Primary fuse (incl.)						
Prime conductor-L: 25 cm, secondary conductor-L: 25 cm.						

CONVENTIONAL TRANSFORMER 300VA/12V~



Article No.	Description	Voltage	Output	Length in cm	Width in cm	Height in cm
451300	C.-transformer 300VA	230V AC/12V AC	300VA	9,0	13,0	11,0
Prime conductor-L: 2 m. Secondary connection: 6 outlets, separately protected via plug fuses.						
Max. load per outlet: 50W.						

All illustrated electronic transformers are safety transformers in compact build. They are protected against no-load, short circuit and overload. The electronic transformers can be operated with standard trailing-edge phase dimmer. Please pay attention to the manufacturers guidelines. The secondary cable of an electronic transformer may not exceed 2 meters, otherwise it can cause emission interference. Electronic transformers are not suitable for rope systems.

FN MINI TRANSFORMER 1 60VA



THE PROFESSIONAL
FN
LIGHT

Article No.	Description	Voltage	Output	Specification	Power factor	Length in cm	Width in cm	Height in cm
461060	FN Mini-transf. 1	230V AC/12V AC	10-60VA	ta: 50°C	0,98 λ	10,5	3,3	2,2
Reversible temperature overload switch. Secondary connection: 1 screw clamp terminal.								

FN MINI TRANSFORMER 2 60VA



THE PROFESSIONAL
FN
LIGHT

Article No.	Description	Voltage	Output	Specification	Power factor	Length in cm	Width in cm	Height in cm
461062	FN Mini-transf. 2	230V AC/12V AC	10-60VA	ta: 50°C	0,98 λ	8,5	4,2	2,2
Reversible temperature overload switch. Secondary connection: 1 screw clamp terminal.								

ELECTRONIC TRANSFORMER FN 01 60VA



THE PROFESSIONAL
FN
LIGHT

Article No.	Description	Voltage	Output	Specification	Length in cm	Width in cm	Height in cm
461067	E-Transformer FN 01	230V AC/12V AC	20-60VA	ta: 50°C	15,1	3,6	2,7
Reversible temperature overload switch. Secondary connection: 2 screw clamp terminals.							

ELECTRONIC TRANSFORMER FN 02 105VA



THE PROFESSIONAL
FN
LIGHT

Article No.	Description	Voltage	Output	Specification	Length in cm	Width in cm	Height in cm
461107	E-Transformer FN 02	230V AC/12V AC	20-105VA	ta: 50°C	16,6	3,9	3,3
Reversible temperature overload switch. Secondary connection: 3 screw clamp terminals.							

ELECTRONIC TRANSFORMER FN 03 150VA



THE PROFESSIONAL
FN
LIGHT

Article No.	Description	Voltage	Output	Specification	Length in cm	Width in cm	Height in cm
461157	E-Transformer FN 03	230V AC/12V AC	50-150VA	ta: 50°C	16,6	3,9	3,3
Reversible temperature overload switch. Secondary connection: 3 screw clamp terminals.							

ELECTRONIC TRANSFORMER FN 04 210VA



THE PROFESSIONAL
FN
LIGHT

Article No.	Description	Voltage	Output	Specification	Length in cm	Width in cm	Height in cm
461217	E-Transformer FN 04	230V AC/12V AC	50-210VA	ta: 50°C	20,0	4,3	3,9
Reversible temperature overload switch. Secondary connection: 3 screw clamp terminals.							

ELECTRONIC TRANSFORMER 105VA



THE PROFESSIONAL
FN
LIGHT

Article No.	Description	Voltage	Output	Specification	Length in cm	Width in cm	Height in cm
461310	E-Transformer 105VA	230V AC/12V AC	35-105VA	ta: 40°C	16,0	4,5	1,8
Accessory/Included parts: Strain relief (incl.)							

PROFI TRANSFORMER HOLE 70VA



Article No.	Description	Voltage	Output	Specification	Power factor	Ø in cm	Depth in cm
461050	Profi transformer Hole	230V AC/12V AC	10.70VA	ta: 50°C	0,98 λ	5,5	2,3
Reversible temperature overload switch. Secondary connection: free supply lines approx. 20 cm. Prim. cable length 15 cm/ Sec. cable length 20 cm							

OSRAM MOUSE 70VA



Article No.	Description	Voltage	Output	Specification	Length in cm	Width in cm	Height in cm
461075	Osram Mouse 70	230V AC/12V AC	20.70VA	ta: 50°C	11,0	5,2	3,3
Secondary side: 1 screw clamp terminal. Dimmable with leading-edge and trailing-edge phase dimmer.							

OSRAM MOUSE 105VA



Article No.	Description	Voltage	Output	Specification	Length in cm	Width in cm	Height in cm
461105	Osram Mouse 105	230V AC/12V AC	35.105VA	ta: 45°C	11,0	5,2	3,3
Secondary side: 1 screw clamp terminal. Dimmable with leading-edge and trailing-edge phase dimmer.							

OSRAM MOUSE 150VA



Article No.	Description	Voltage	Output	Specification	Length in cm	Width in cm	Height in cm
461155	Osram Mouse 150	230V AC/12V AC	50.150VA	ta: 45°C	15,3	5,4	3,6
Through-wiring. Secondary side: 3 screw clamp terminals. Dimmable with leading-edge and trailing-edge phase dimmer.							

CONNECTION BOX ROUND



Article No.	Description	Ø in cm	Length in cm	Width in cm	Height in cm	Cable-Ø in mm
229260	Connection box round	11,5	15,5	15,5	4,6	9-14
Accessory/Included parts: Clamp (incl.) For wiring in outdoor areas. Suitable for driver [464108/-200] see page 592. 2 inputs can be used with thin conductors 6-9,5 mm².						

CONNECTION BOX IP67



Article No.	Description	Length in cm	Width in cm	Height in cm	Cable-Ø in mm
229262	Connection box IP67	25,0	4,5	6,0	6-13

CONNECTION BOX IP68



Article No.	Description	Ø in cm	Length in cm	Cable-Ø in mm
228730	Connection box IP68 3-pole	2,7	11,5	6-12
228725	Connection box IP68 5-pole	3,2	13,0	8-17

TRANSFORMER BOX IP67



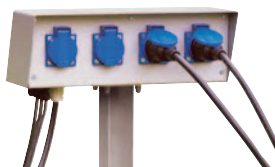
Article No.	Description	Length in cm	Width in cm	Height in cm	Cable-Ø in mm
229261	Transformer box IP67	29,5	4,5	6,0	6-13
Suitable for electronic components with the max. dimensions: L/W/H: 18,5/4,0/3,5 cm e.g.: LED driver 12W [464110] see page 592.					

ENERGY PACK

230~



IP54



Article No.	Description	Voltage	Output	Length in cm	Width in cm	Height in cm	Earth spike-L in cm
227000	Energy Pack 4 safety sockets with hinged lid	230V AC	16A max.	35,0	12,0	12,0	50,0
Accessory/Included parts: Earth spike (incl.), Mounting screws (incl.)							
Transformers which are not suitable for outdoor application can be placed in the energy pack .							
3 outlets for metrical cable glands according to EN 50262 M 12 (cable-Ø: 9-17 mm).							
1 entry for metrical cable glands according to EN 50262 M 25 (cable-Ø: 9-17 mm).							

8-CHANNEL RADIO TRANSMITTER

12~



Article No.	Description	Voltage	Length in cm	Width in cm	Height in cm	Range in m outdoor/indoor
410851	8-channel radio transmitter	12V AC	7,8	4,1	1,4	approx. 50 / 30
Accessory/Included parts: Battery (incl.)						
For max. two 4-channel receiver (410850 see below). Encoding free selectable.						

4-CHANNEL RECEIVER

230~



IP54



Article No.	Description	Voltage	Output per channel	Length in cm	Width in cm	Height in cm
410850	4-channel receiver	230V AC	900W max.	12,1	8,0	5,9
2 make contacts and 2 changing contacts, encoding free selectable.						

DIMMER MODULE DODI

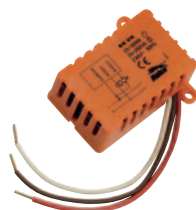
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Article No.	Description	Voltage	Output	Length in cm	Width in cm	Height in cm
410120	Dimmer module Dodi	230V AC	60-500W	1,5	4,0	5,0
The dimmer module DODI is a leading-edge phase dimmer for the installation in junction boxes. It is suitable for an output of 60-500W and for inductive/ohmic loads.						
The dimmer module DODI can not be used in combination with electronic transformers!						
Incl. soft start for extended operating life of the bulb. The dimmer is controlled via a wall push button.						

DIMMER MODULE RHUN

230~



Article No.	Description	Voltage	Output	Length in cm	Width in cm	Height in cm
410130	Dimmer module Rhun	230V AC	40-300W	5,0	3,2	2,0
The dimmer module RHUN is a trailing-edge phase dimmer for the installation in junction boxes. It is suitable for an output of 40-300W and for inductive/ohmic loads.						
Incl. soft start for extended operating life of the bulb. The dimmer is controlled via a wall push button.						

CLEAR CABLE



Article No.	Description	Dimensions
961250	Clear cable insulated 3x 0,75 mm²	10 m roll

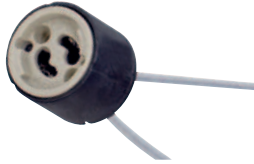
WIELAND PLUG/SOCKET

230~



Article No.	Description	Line length in cm
956175 ▼	Wieland plug	50,0
956176 ▼	Wieland socket	50,0

GX10 SOCKET



Article No.	Description	Socket	Ø in cm	Length in cm	Line length in cm	
955138	GX10 Socket	GX10	3,1	2,7	20,0	

GU10 SOCKET

230-



Article No.	Description	Socket	Voltage	Line length in cm	Weight	
955135	GU10 Socket 15	GU10	230V AC	15,0	0,02 kg	
955137	GU10 Socket 60	GU10	230V AC	60,0	0,035 kg	

G6,35 HALOGEN SOCKET



Article No.	Description	Socket	Ø in cm	Height in cm	Line length in cm	
955000	Halogen socket 15	G6,35	1,7	1,0	15,0	
955020	Halogen socket 60	G6,35	1,7	1,0	60,0	
955030	Halogen socket 120	G6,35	1,7	1,0	120,0	

PORCELAIN TERMINAL



Article No.	Description	Length in cm	Width in cm	Height in cm	Number	
956105	Porcelain terminal	19,5	8,0	6,5	10 pce.	

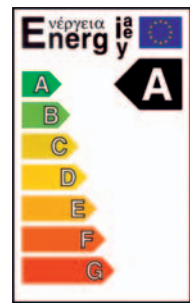
LOW-VOLTAGE DISTRIBUTION BLOCK 6-FOLD



Article No.	Description	Length in cm	Width in cm	Height in cm	
410140	LV-distribution block 6-fold	6,4	2,6	1,5	

A single clamp can be loaded with 50W. The max. load may not exceed 250W!

BULBS



- The specification of the energy efficiency category for the respective bulb is marked with EEK and the corresponding category value in the table.
- The light technical properties of bulbs are marked with Lumen (lm) for free radiating bulbs and in Candela (cd) for reflector bulbs, the colour rendering property is expressed through the Index Ra.
- For the application of IRC or energy-saving bulbs the maximum output of the luminaires and of the standard equivalent bulb must be noted. Tabela can be found next to the bulbs.
Example: A lamp with max. 50 standard bulb can only be equipped with a 35W energy-saving bulb!
- All halogen metal halide bulbs, energy-saving bulbs, LED bulbs, fluorescent bulbs and compact fluorescent bulbs must be separately disposed of and do not belong in the domestic rubbish!
- The operation with open lamps without protection glass is only permissible with low-pressure bulbs.
Bulbs with this sign (E) (standard IEC 357) are suitable for the use in lamps without protection glass.

LINE BULBS

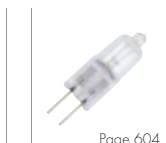
Line bulbs



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HALOGEN BULBS

Pin socket bulbs
G4 socket
G6,35 socket



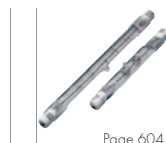
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G9



Page 604

R7s



Page 604

MR11 / MR16



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GU10



Page 605

QRB111



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ES111



Page 607

PROFESSIONAL BULBS

Precise™ ConstantColor™ MR16 / GX10			Britespot GX10		CDM-TC G8,5		SDW-TG GX12		HQI Rx7s		HQI-T G12		CMH-TC Constant- Color™ SuperMini GU6,5		HQI-/HIT mixed light bulbs PAR-bulbs E27		PAR56 GX16d	
	Page 606	Page 606		Page 607		Page 608		Page 608		Page 608		Page 608		Page 608		Page 609		Page 609

LED BULBS

LED G4 Superflux LED SMD LED Top LED				LED MR16		LED GU10	
	Page 610	Page 610	Page 611		Page 611		Page 612
LED QRB 111		LED ES111					
	Page 612		Page 613				
LED GX53							
	Page 613	Page 613					

ENERGY-SAVING BULBS

EnergySaver GX53			EnergySaver GU10			EnergySaver ES111	
	Page 614	Page 614		Page 614	Page 614		Page 614
EnergySaver E14			EnergySaver E27				
	Page 615	Page 615		Page 615	Page 615	Page 615	Page 616
EnergySaver G9		EnergySaver G23		EnergySaver G24q		EnergySaver G24d	
	Page 616		Page 616		Page 616		Page 616
EnergySaver ring tube GX13 G10q		EnergySaver fluorescent tube T5 T8					
	Page 617		Page 617				



LINE BULB

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Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category
590150	Line bulb matt	S14d	35W	3,0	30,0	2700K	270lm	EEK=F
590151	Line bulb matt	S14d	60W	3,0	50,0	2700K	420lm	EEK=G
590152	Line bulb clear	S14d	60W	3,0	50,0	2700K	460lm	EEK=G

PIN SOCKET LOW-PRESSURE G4

12~




Article No.	Type	Socket	Wattage	Colour temperature	Light flux
512205	Halogen	G4	5W	2700K	50lm
512210	Halogen	G4	10W	2700K	120lm
512220	Halogen	G4	20W	2700K	330lm

PIN SOCKET LOW-PRESSURE G6,35

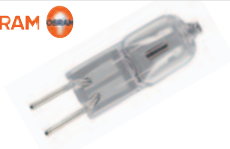
12~




Article No.	Type	Socket	Wattage	Colour temperature	Light flux
512235	Halogen	G6,35	35W	2700K	595lm
512250	Halogen	G6,35	50W	2700K	900lm

PIN SOCKET LOW-PRESSURE GY6,35

12~

Article No.	Type	Socket	Wattage	Colour temperature	Light flux
512260	Halogen	GY6,35	90W	3000K	1800lm

G9

230~




Article No.	Type	Socket	Wattage	Colour temperature	Light flux	Energy efficiency category	
519325	Quartz-halogen	G9	25W	2700K	225lm	EEK=E	
519340	Quartz-halogen	G9	40W	2700K	400lm	EEK=E	
519360	Quartz-halogen	G9	42W	EnergySaver ± 60W	2700K	620lm	EEK=C

OSRAM HALOPIN ECO "EnergySaver" G9

230~




Article No.	Type	Socket	Wattage	Colour temperature	Light flux	Energy efficiency category	
519450	Quartz-halogen	G9	20W	EnergySaver ± 25W	2700K	200lm	EEK=D
519451	Quartz-halogen	G9	33W	EnergySaver ± 40W	2700K	460lm	EEK=C
519452	Quartz-halogen	G9	48W	EnergySaver ± 60W	2800K	740lm	EEK=C

R7s 78mm/118mm "EnergySaver"

230~




Article No.	Type	Socket	Wattage	Colour temperature	Light flux	Energy efficiency category	
519206	Quartz-halogen	R7s 78mm	48W	EnergySaver ± 60W	2700K	750lm	EEK=C
519210	Quartz-halogen	R7s 78mm	70W	EnergySaver ± 100W	2700K	1300lm	EEK=C
519215	Quartz-halogen	R7s 78mm	100W	EnergySaver ± 150W	2700K	1900lm	EEK=C
519221	Quartz-halogen	R7s 118mm	100W	EnergySaver ± 150W	2700K	1900lm	EEK=C
519222	Quartz-halogen	R7s 118mm	130W	EnergySaver ± 200W	2700K	2600lm	EEK=C
519223	Quartz-halogen	R7s 118mm	200W	EnergySaver ± 300W	2700K	4000lm	EEK=C

COOL BEAM MR11 2700K, 20W, 35W

12~




Article No.	Type	Socket	Wattage	Ø in cm	Colour temperature	Light intensity	Beam angle
533228	Halogen	GU4	20W	3,5	2700K	450cd	FTD 30°
533330	Halogen	GU4	35W	3,5	2700K	720cd	FTH 30°



XENON COOL BEAM MR16 2700K, 20W, 35W, 50W

12~

THE PROFESSIONAL
FN
LIGHT

Article No.	Type	Socket	Wattage	Ø in cm	Colour temperature	Light intensity		
539240	Xenon	GU5,3	20W	5,0	2700K	440cd	BAB	40°
539340	Xenon	GU5,3	35W	5,0	2700K	920cd	FMW	38°
539540	Xenon	GU5,3	50W	5,0	2700K	1400cd	EXN	40°

Especially long working life!

COOL BEAM MR16 2700K, 20W, 35W, 50W

12~

THE PROFESSIONAL
FN
LIGHT

Article No.	Type	Socket	Wattage	Ø in cm	Colour temperature	Light intensity		
535213	Halogen	GU5,3	20W	5,0	2700K	2000cd	ESX	13°
535240	Halogen	GU5,3	20W	5,0	2700K	450cd	BAB	40°
535312	Halogen	GU5,3	35W	5,0	2700K	3600cd	FRB	8°
535338	Halogen	GU5,3	35W	5,0	2700K	810cd	FMW	40°
535514	Halogen	GU5,3	50W	5,0	2700K	6500cd	EXT	14°
535527	Halogen	GU5,3	50W	5,0	2700K	2450cd	EXZ	25°
535540	Halogen	GU5,3	50W	5,0	2700K	1500cd	EXN	40°
535560	Halogen	GU5,3	50W	5,0	2700K	630cd	FNV	55°

DIRECT BEAM MR16 CHROME 2700K, 20W, 35W, 50W

12~

THE PROFESSIONAL
FN
LIGHT

Article No.	Type	Socket	Wattage	Ø in cm	Colour temperature	Light intensity		
534240	Halogen	GU5,3	20W	5,0	2700K	450cd	BAB	40°
534338	Halogen	GU5,3	35W	5,0	2700K	810cd	FMW	40°
534540	Halogen	GU5,3	50W	5,0	2700K	1500cd	EXN	40°

With silver reflector rear side.

DIRECT BEAM MR16 2700K, 10W, 20W, 35W, 50W

12~

THE PROFESSIONAL
FN
LIGHT

Article No.	Type	Socket	Wattage	Ø in cm	Colour temperature	Light intensity		
536138	Halogen	GU5,3	10W	5,0	2700K	300cd	-	40°
536240	Halogen	GU5,3	20W	5,0	2700K	450cd	BAB	40°
536338	Halogen	GU5,3	35W	5,0	2700K	810cd	FMW	38°
536540	Halogen	GU5,3	50W	5,0	2700K	1500cd	EXN	40°

Metal coated for minor heat development at the rear side of the reflector.

GU10 2700K, 35W, 50W

230~

SYLVANIA



Article No.	Type	Socket	Wattage	Ø in cm	Colour temperature	Light intensity		
575520	Quartz-Halogen	GU10	35W	5,0	2700K	500cd	-	25°
575530	Quartz-Halogen	GU10	50W	5,0	2700K	1100cd	-	25°
575535	Quartz-Halogen	GU10	50W	5,0	2700K	500cd	-	50°

Reflector alu-coated.

GU10 ECO "EnergySaver" 25W, 35W

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Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light intensity	
575360	Quartz-Halogen	GU10	25W	EnergySaver \approx 35W	5,0	5,5	2800K	800cd 20°
575370	Quartz-Halogen	GU10	35W	EnergySaver \approx 50W	5,0	5,5	2800K	1200cd 20°

GU10 2700K, 4000K 35W, 50W / GU10 COLOUR 50W

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THE PROFESSIONAL
FN
LIGHT

Article No.	Type	Socket	Wattage	Ø in cm	Light colour	Colour temperature	Light intensity	
575350	Quartz-Halogen	GU10	35W	5,0	-	4000K	250cd	50°
575351	Quartz-Halogen	GU10	35W	5,0	-	2700K	270cd	50°
575510	Quartz-Halogen	GU10	50W	5,0	-	2700K	580cd	50°
575511	Quartz-Halogen	GU10	50W	5,0	-	4000K	400cd	50°
575504	Quartz-Halogen	GU10	50W	5,0	yellow	-	-	50°
575505	Quartz-Halogen	GU10	50W	5,0	green	-	-	50°
575506	Quartz-Halogen	GU10	50W	5,0	red	-	-	50°
575507	Quartz-Halogen	GU10	50W	5,0	blue	-	-	50°

Reflector alu-coated.

PAR20 GU10 2700K, 75W

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THE PROFESSIONAL
FN
LIGHT

Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light intensity	
575682	Quartz-Halogen	GU10	75W	6,4	6,4	2700K	1060cd	50°



GE PRECISE™ CONSTANTCOLOR™

Halogen Precise ConstantColor MR16
From the founder of halogen light: GE Precise MR16 ConstantColor

- Through ConstantColor coating a 98% luminous intensity preservation is given for the entire operating life.
- Excellent colour rendering.
- Extreme high operating life of up to 6.000 hours.
- No shadow to the rear through double sided reflector coating.
- Minor light loss on the rear side of reflector.
- Brilliant, white light (3050 K) through the entire operating life through Xenon quartz burner.
- Consistent bright light cone without any colour interference on the edges.
- Exact positioned burner in the reflector for largest possible light yield.
- UV control.

CMH Precise MR16 GX10
Less is more ... CMH Precise MR16

- Formidable efficiency - 2 up to 3 times better than halogen bulbs.
- 10.000 - 12.000 hours operating life - up to 6 times longer than halogen bulbs.
- Robust GX10 socket for simple mounting in the lamp.
- 3 angles of radiation (12°- 25°- 40°) and 3 light colours (830, 930, 942 Kelvin) allow a high degree of artistic freedom.
- Durable, reliable and best colour rendering for many applications.
- Minor lumen loss and constant, brilliant light colour through the operating life.
- UV filter reduces fading and flaking of plastic.

PRECISE™ CONSTANTCOLOR™ MR16 20W, 35W, 50W

12~



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light intensity		Operating life
525212	Halogen	GU5,3	20W	5,1	5,0	2900K	3150cd	15°	5000 h
525240	Halogen	GU5,3	20W	5,1	5,0	2900K	475cd	40°	5000 h
525312	Halogen	GU5,3	35W	5,1	5,0	3050K	7500cd	12°	5000 h
525320	Halogen	GU5,3	35W	5,1	5,0	3000K	3200cd	20°	5000 h
525340	Halogen	GU5,3	35W	5,1	5,0	3000K	900cd	40°	5000 h
525514	Halogen	GU5,3	50W	5,1	5,0	3050K	8400cd	14°	6000 h
525525	Halogen	GU5,3	50W	5,1	5,0	3050K	2900cd	25°	6000 h
525540	Halogen	GU5,3	50W	5,1	5,0	3050K	1500cd	40°	6000 h
525555	Halogen	GU5,3	50W	5,1	5,0	3050K	850cd	55°	6000 h

CMH MR16 PRECISE™ CONSTANTCOLOR™ GX10 20W, 35W



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light intensity		Operat. life
507210	HIPAR51	GX10	20W	5,1	5,45	3000K	9000cd	12°	Ra80+ 12000 h
507220	HIPAR51	GX10	20W	5,1	5,45	3000K	2900cd	25°	Ra80+ 12000 h
507240	HIPAR51	GX10	20W	5,1	5,45	3000K	1500cd	40°	Ra80+ 12000 h
Reflector alu-coated. Operation only with electronic ballast HQI/CDM (470350) see page 595.									
507310	HIPAR51	GX10	35W	5,1	5,45	3000K	16000cd	12°	Ra90 10000 h
507320	HIPAR51	GX10	35W	5,1	5,45	3000K	5500cd	25°	Ra90 10000 h
507340	HIPAR51	GX10	35W	5,1	5,45	3000K	3000cd	40°	Ra90 10000 h
507311	HIPAR51	GX10	35W	5,1	5,45	4200K	16000cd	12°	Ra90 12000 h
507321	HIPAR51	GX10	35W	5,1	5,45	4200K	5500cd	25°	Ra90 12000 h
507341	HIPAR51	GX10	35W	5,1	5,45	4200K	3000cd	40°	Ra90 12000 h

Reflector alu-coated. Operation only with electronic ballast HQI/CDM (470360) see page 595.



HALOSPOT111 "EnergySaver" 35W, 50W, 60W

12~



OSRAM



Article No.	Type	Socket	Wattage		Ø in cm	Colour temperature	Light intensity		
545512	Low-pressure halogen	G53	35W	EnergySaver \triangle 50W	11,1	3000K	22500cd	6°	
545522	Low-pressure halogen	G53	35W	EnergySaver \triangle 50W	11,1	3000K	4500cd	24°	
545751	Low-pressure halogen	G53	50W	EnergySaver \triangle 75W	11,1	3000K	3500cd	6°	
545752	Low-pressure halogen	G53	50W	EnergySaver \triangle 75W	11,1	3000K	5800cd	24°	
545753	Low-pressure halogen	G53	50W	EnergySaver \triangle 75W	11,1	3000K	2000cd	40°	
545108	Low-pressure halogen	G53	60W	EnergySaver \triangle 100W	11,1	3000K	4500cd	6°	
545124	Low-pressure halogen	G53	60W	EnergySaver \triangle 100W	11,1	3000K	8500cd	24°	
545145	Low-pressure halogen	G53	60W	EnergySaver \triangle 100W	11,1	3000K	2800cd	40°	

QRB111 20W, 35W, 50W, 75W

12~

THE PROFESSIONAL
FN
LIGHT

Article No.	Type	Socket	Wattage		Ø in cm	Colour temperature	Light intensity		
543208	Low-pressure halogen	G53	20W		11,1	2700K	4000cd	8°	
543224	Low-pressure halogen	G53	20W		11,1	2700K	900cd	24°	
543245	Low-pressure halogen	G53	20W		11,1	2700K	300cd	45°	
543308	Low-pressure halogen	G53	35W		11,1	2700K	7000cd	8°	
543324	Low-pressure halogen	G53	35W		11,1	2700K	1400cd	24°	
543345	Low-pressure halogen	G53	35W		11,1	2700K	350cd	45°	
543508	Low-pressure halogen	G53	50W		11,1	2700K	12000cd	8°	
543524	Low-pressure halogen	G53	50W		11,1	2700K	2100cd	24°	
543545	Low-pressure halogen	G53	50W		11,1	2700K	700cd	45°	
543708	Low-pressure halogen	G53	75W		11,1	2700K	15000cd	8°	
543724	Low-pressure halogen	G53	75W		11,1	2700K	3000cd	24°	
543745	Low-pressure halogen	G53	75W		11,1	2700K	950cd	45°	

ES111 75W

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SYLVANIA



Article No.	Type	Socket	Wattage		Ø in cm	Colour temperature	Light intensity		
575540	Quartz-Halogen	GU10	75W		11,1	2800K	3500cd		

Reflector alu-coated with shade.

F.N. ES111 50W, 75W

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THE PROFESSIONAL
FN
LIGHT

Article No.	Type	Socket	Wattage		Ø in cm	Colour temperature	Light intensity		
575652	Quartz-Halogen	GU10	50W		11,1	2700K	1300cd		
575672	Quartz-Halogen	GU10	75W		11,1	2700K	2000cd		

Reflector alu-coated with shade.

575651	Quartz-Halogen	GU10	50W		11,1	4000K	1500cd		
575671	Quartz-Halogen	GU10	75W		11,1	4000K	2500cd		

Reflector alu-coated. Neutral white light in the light cone centre, surrounded by a dichroic effect.

BRITESPOT ES111 GX10 35W, 70W



SYLVANIA



Article No.	Type	Socket	Wattage		Ø in cm	Colour temperature	Light intensity		
506992	Halogen metal halide	GX10	35W		11,1	3000K	10000cd	Ra90	
Reflector alu-coated with shade. Operation only with electronic ballast HQI/CDM [470360] see page 595.									
506982	Halogen metal halide	GX10	70W		11,1	3000K	20000cd	Ra90	
Reflector alu-coated with shade. Operation only with electronic ballast HQI/CDM [470370] see page 595.									


CMH-TC ConstantColor™ SuperMini GU6,5 20W, 35W


Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	
507020	HIT-CE Halogen metal halide	GU6,5	20W	1,3	5,2	3000K	1615lm	Ra80+
507030	HIT-CE Halogen metal halide	GU6,5	35W	1,3	5,2	3000K	3300lm	Ra90
507031	HIT-CE Halogen metal halide	GU6,5	35W	1,3	5,2	4200K	3400lm	Ra90

Ceramics burner for high colour fidelity during the whole operating life.

less is more ... CMH SuperMini

- smallest ceramic halogen metal halide bulb from GE lighting.
- Reliable 3-part discharge tube of the 2. generation.
- Robust GU6,5 twist & lock socket guarantees an exact positioning of the bulb in the reflector.
- 4,5 times higher lumen (1615 lm) than a comparable 20W halogen bulb which means higher energy cost saving.
- 6 times longer operating life (up to 12000 hours) than a comparable halogen bulb.
- Minor lumen drop and constant brilliant light colour over the entire operating life.
- Excellent colour rendering 20W >Ra80 and 35W >Ra90.
- UV Filter reduces bleaching and embrittlement of plastics.

CDM-TC G8,5 35W, 70W


Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	
507035	CDM-TC Halogen metal halide	G8,5	35W	1,5	8,5	3000K	3400lm	Ra81
507045	CDM-TC Halogen metal halide	G8,5	35W	1,5	8,5	4200K	3200lm	Ra85
507037	CDM-TC Halogen metal halide	G8,5	70W	1,5	8,5	3000K	6200lm	Ra83
507047	CDM-TC Halogen metal halide	G8,5	70W	1,5	8,5	4200K	6200lm	Ra89

CDM-TC ELITE G8,5 35W, 70W

PHILIPS


Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	
507400	CDM-TC Elite Halogen metal halide	G8,5	35W	2,0	8,5	3000K	3500lm	Ra90
507410	CDM-TC Elite Halogen metal halide	G8,5	70W	2,0	8,5	3000K	7300lm	Ra91

HQI-T G12 70W, 150W


70W

Article No.	Type	Socket	Wattage	
■ 510277	HQI-T Halogen metal halide	G12	70W	
■ 510275	HQI-T Halogen metal halide	G12	70W	

150W



■ 510357	HQI-T Halogen metal halide	G12	150W	
■ 510355	HQI-T Halogen metal halide	G12	150W	

CDM-T ELITE G12 35W, 70W, 150W

PHILIPS


Article No.	Type	Socket	Wattage	Length in cm	Width in cm	Colour temperature	Light flux	
507420	CDM-T Elite Halogen metal halide	G12	35W	10,3	2,0	3000K	3500lm	Ra90
507430	CDM-T Elite Halogen metal halide	G12	70W	10,3	2,0	3000K	7300lm	Ra91
507440	CDM-T Elite Halogen metal halide	G12	150W	11,0	2,0	3000K	15000lm	Ra90

CDM-T G12 35W, 70W, 150W

PHILIPS


35W

70W + 150W

Article No.	Type	Socket	Wattage	Length in cm	Width in cm	Colour temperature	Light flux	
507120	CDM-T Halogen metal halide	G12	35W	10,3	2,0	3000K	3300lm	Ra81
507121	CDM-T Halogen metal halide	G12	35W	10,3	2,0	4200K	3300lm	Ra90
507130	CDM-T Halogen metal halide	G12	70W	10,3	2,0	3000K	6600lm	Ra84
507131	CDM-T Halogen metal halide	G12	70W	10,3	2,0	4200K	12700lm	Ra92
507140	CDM-T Halogen metal halide	G12	150W	11,0	2,0	3000K	14000lm	Ra85
507141	CDM-T Halogen metal halide	G12	150W	11,0	2,0	4200K	12700lm	Ra96

Ceramics burner for high colour fidelity during the whole operating life.

SDW-TG GX12 100W

PHILIPS


Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	
508180	SDW-TG Mini sodium vapour discharge	GX12-1	100W	11,0	2,0	2550K	4900lm	Ra83

Rx7s HQI 70W, 150W


70W

150W



Article No.	Type	Socket	Wattage	Length in cm	Colour temperature	Light flux	
509070	Halogen metal halide	Rx7s	70W	12,0	3000K	6000lm	Ra75
509071	Halogen metal halide	Rx7s	70W	12,0	4200K	6500lm	Ra85
509150	Halogen metal halide	Rx7s	150W	13,5	3000K	12000lm	Ra75
509151	Halogen metal halide	Rx7s	150W	13,5	4200K	12500lm	Ra85



Rx7s HQI COLOUR 70W, 150W



Article No.	Type	Socket	Wattage	Length in cm	Light colour	Light flux
510075	HQHM Halogen metal halide	Rx7s	70W	12,0	green	3600lm
510077	HQHM Halogen metal halide	Rx7s	70W	12,0	blue	1700lm
510155	HQHM Halogen metal halide	Rx7s	150W	13,5	green	9500lm
510157	HQHM Halogen metal halide	Rx7s	150W	13,5	blue	3000lm

Rx7s CDM-TD 70W, 150W



Article No.	Type	Socket	Wattage	Length in cm	Colour temperature	Light flux
507070	CDM-TD Halogen metal halide	Rx7s	70W	12,0	3000K	6500lm Ra82
507071	CDM-TD Halogen metal halide	Rx7s	70W	12,0	4200K	6000lm Ra92
507150	CDM-TD Halogen metal halide	Rx7s	150W	13,5	3000K	13250lm Ra88
507151	CDM-TD Halogen metal halide	Rx7s	150W	13,5	4200K	14200lm Ra96

Ceramics burner for high colour fidelity during the whole operating life

HQI-E E27 70W, 150W / HQI-E E40 250W, 400W



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux
508170	HQI-E Halogen metal halide	E27	70W	5,4	13,8	3000K	- Ra70-80
508171	HQI-E Halogen metal halide	E27	70W	5,4	13,8	3800K	- Ra70-80
509170	HQI-E Halogen metal halide	E27	150W	5,4	13,8	3000K	12500lm Ra70-80
509171	HQI-E Halogen metal halide	E27	150W	5,4	13,8	3800K	12500lm Ra70-80
Operation is only possible with ballasts.							
509180	HQI-E Halogen metal halide	E40	250W	9,0	22,5	4200K	20000lm Ra70-80
509191	HQI-E Halogen metal halide	E40	400W	9,0	22,5	4200K	40000lm Ra70-80
Operation is only possible with ballasts.							

HIT-T E40 400W



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Light colour	Colour temperature	Light flux
510400	HIT-T Halogen metal halide	E40	400W	4,5	26,5	cold white	4200K	42000lm Ra70+
510407	HIT-T Halogen metal halide	E40	400W	4,5	26,5	blue	-	-
Operation is only possible with ballasts.								

HMLI E27 160W, 250W



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux
506160	Mixed light bulb	E27	160W	7,4	17,0	3600K	3100lm Ra62
506250	Mixed light bulb	E27	250W	7,4	17,0	3800K	5600lm Ra60

HMLI-bulbs are operated with mains voltage without a ballast.

They are equipped with a tungsten filament which is in line with a mercury vapour tube.

PAR20 E27 50W, 75W / PAR30 E27 75W, 150W / PAR38 E27 80W



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light intensity	Operat. life
519725	Halogen-Reflector PAR20	E27	50W	6,5	8,2	-	3300cd	24° 1500 h
519727	Halogen-Reflector PAR20	E27	75W	6,5	8,2	-	5500cd	24° 1500 h
519737	Halogen-Reflector PAR30	E27	75W	9,5	9,3	-	7000cd	24° 2000 h
519739	Halogen-Reflector PAR30	E27	150W	9,5	9,3	-	11000cd	24° 2000 h
519760	Halogen-Reflector PAR38	E27	80W	12,4	13,6	2500K	-	30° 2000 h

ENERGY-SAVING BULB PAR38 E27 20W



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light intensity
519620	Energy-saving reflector PAR38	E27	20W	12,2	13,6	2700K	10000cd Ra80-90

PAR56 GX16d 300W



Article No.	Type	Socket	Wattage	Ø in cm	Light intensity
519740	Reflector	GX16d	300W	17,5	40000cd 15° NSP
519741	Reflector	GX16d	300W	17,5	30000cd 30° MFL

Attention! Effect spot. Not suitable for continuous operation.



LED-INSERTS

To convert downlights to long-life and energy-saving LED technology.

The LED-inserts 3x 1W and 3x 3W can be used in most of our GU10 downlights instead of standard GU10 halogene bulbs. The LED-insert will be fixed in the lamp like a bulb. The standard GU10 socket will be omitted. The LED-insert can be connected directly with the driver and this one directly to the mains.

The LED-inserts are available as single components or as relamping kit incl. driver.



LED MR16 INSERT 3x 1W



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED Colour temperature	Light flux	
551101	PowerLED	MR16 insert	3W	5,0	3,8	5500K	250lm	15°
551102	PowerLED	MR16 insert	3W	5,0	3,8	3250K	180lm	15°
551111	PowerLED	MR16 insert	3W	5,0	3,8	5500K	220lm	35°
551112	PowerLED	MR16 insert	3W	5,0	3,8	3250K	160lm	35°

Cable-L: 30 cm. Operation only with 350mA driver. LED driver [excl.]

LED MR16 INSERT 3x 3W



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED Colour temperature	Light flux	
551121	PowerLED	MR16 insert	9W	5,0	6,2	5500K	390lm	15°
551122	PowerLED	MR16 insert	9W	5,0	6,2	3250K	320lm	15°
551131	PowerLED	MR16 insert	9W	5,0	6,2	5500K	350lm	35°
551132	PowerLED	MR16 insert	9W	5,0	6,2	3250K	290lm	35°

Cable-L: 30 cm. Operation only with 700mA driver. LED driver [excl.]

ACCESSORY for LED MR16 inserts



230~
mA
350

LED driver 8,5W, 350mA Art. No.: 464301
Output: 8,5W
ta: 50°C, tc: 80°C
L/W/H: 9/4/2,3 cm
For 3-6 1W LED or
2x LED insert 3x1W.



230~
mA
700

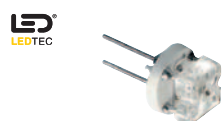
LED driver 9W, 700mA Art. No.: 464302
Output: 9W
ta: 50°C, tc: 80°C
L/W/H: 9/4/2,3 cm
For 3x 3W LED or
1x LED insert 3x3W.

LED RELAMPING KIT LED MR16 inserts incl. driver as a set



Article No.	Set consisting of	Weight
551201	350mA driver incl. LED MR16 insert 3x 1W, 5500K, 15°	0,12 kg
551202	350mA driver incl. LED MR16 insert 3x 1W, 3250K, 15°	0,12 kg
551211	350mA driver incl. LED MR16 insert 3x 1W, 5500K, 35°	0,12 kg
551212	350mA driver incl. LED MR16 insert 3x 1W, 3250K, 35°	0,12 kg
551221	700mA driver incl. LED MR16 insert 3x 3W, 5500K, 15°	0,15 kg
551222	700mA driver incl. LED MR16 insert 3x 3W, 3250K, 15°	0,15 kg
551231	700mA driver incl. LED MR16 insert 3x 3W, 5500K, 35°	0,15 kg
551232	700mA driver incl. LED MR16 insert 3x 3W, 3250K, 35°	0,15 kg

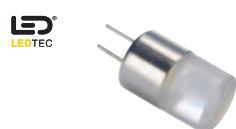
G4 LED SUPER FLUX



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux	
550311	SuperfluxLED	G4	0,2W	0,9	1,8	white	2,6lm	60°
550312	SuperfluxLED	G4	0,2W	0,9	1,8	warm white	2,7lm	60°
550317	SuperfluxLED	G4	0,2W	0,9	1,8	blue	0,8lm	100°

Operation only with conventional transformer. Pay attention to the usage rate of the transformer.

G4 HIGH POWER LED






Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux	
550911	SMD LED	G4	0,4W	1,0	2,5	white	15lm	120°
550912	SMD LED	G4	0,4W	1,0	2,5	warm white	15lm	120°

Operation only with conventional transformer. Pay attention to the usage rate of the transformer.






OCTAGON LED MODULE 12V

12~ LED 9 pce. 120°   

Article No.	Type	Socket	Wattage	Length in cm	Width in cm	Height in cm	LED colour	Light flux
550251	TopLED	G4	1,5W	3,0	3,9	0,4	white	21lm
550252	TopLED	G4	1,5W	3,0	3,9	0,4	warm white	19lm

To convert suitable lamps to LED technology (see product description).
Operation only with conventional transformer. Pay attention to the usage rate of the transformer.




LED MR16

12~ LED 18 pce. 25°   

Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux
550801	LED	GU5,3	2,4W	5,0	5,0	white	57lm
550802	LED	GU5,3	2,4W	5,0	5,0	warm white	46lm

Operation only with conventional transformer. Pay attention to the usage rate of the transformer.

LEDI-LIGHT® MR16

12~ LED 18 pce. 25°   

Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux
550151	LED	GU5,3	2W	5,0	4,8	white	39lm
550152	LED	GU5,3	2W	5,0	4,8	warm white	37lm
550157	LED	GU5,3	2W	5,0	4,8	blue	-

Operation only with conventional transformer. Pay attention to the usage rate of the transformer.

MASTER LED SPOT MR16

12~ LED 3 pce.  

Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light intensity	
560041	PowerLED	GU5,3	4W	5,0	4,6	2700K	700cd	24° Ra80+
560042	PowerLED	GU5,3	4W	5,0	4,6	2700K	470cd	36° Ra80+
560043	PowerLED	GU5,3	4W	5,0	4,6	3000K	720cd	24° Ra80+
560044	PowerLED	GU5,3	4W	5,0	4,6	3000K	500cd	36° Ra80+

Operation is possible with electronic or conventional transformer.

MR16 LED 1x 3W

12~ LED 1 pce. 38°   

Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux
550881	PowerLED	GU5,3	3W	5,0	4,9	white	120lm
550882	PowerLED	GU5,3	3W	5,0	4,9	warm white	100lm

Power consumption: 270mA. Operation is possible with electronic or conventional transformer. Pay attention to the usage rate of the transformer.



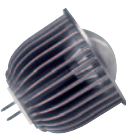
MR16 LED 3x 1W

12~ LED 3 pce. 38°   

Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux
550851	PowerLED	GU5,3	3W	5,0	4,9	white	170lm
550852	PowerLED	GU5,3	3W	5,0	4,9	warm white	150lm

Power consumption: 390mA. Operation is possible with electronic or conventional transformer. Pay attention to the usage rate of the transformer.




POWERLED MR16 5W

12~ LED 1 pce. 45°   

Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Colour temperature	Light flux
550531	PowerLED	GX5,3	5W	5,0	5,5	white	5500K	270lm
550532	PowerLED	GX5,3	5W	5,0	5,5	warm white	3250K	240lm

Power consumption: 710mA. Operation only with conventional transformer. Pay attention to the usage rate of the transformer.

POWERLED MR16 3x 1W

12~/~ LED 3 pce. 25°   

Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux
550281	PowerLED	GU5,3	3W	5,0	6,0	white	90lm
550282	PowerLED	GU5,3	3W	5,0	6,0	warm white	100lm

Power consumption: 470mA. Bulb can be operated with direct current and alternating voltage.

Operation only with conventional transformer or power unit [470507]. Pay attention to the usage rate of the transformer.



LED GU10

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Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux
550811	LED	GU10	2,5W	5,0	5,65	white	50lm
550812	LED	GU10	2,5W	5,0	5,65	warm white	40lm

LEDI-LIGHT® GU10

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Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux
550161	LED	GU10	1,8W	5,0	5,5	white	42lm
550162	LED	GU10	1,8W	5,0	5,5	warm white	36lm
■ 550167	LED	GU10	1,8W	5,0	5,5	blue	-

GU10 LED 1x 3W

230~



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux
550891	PowerLED	GU10	3W	5,0	5,3	white	120lm
550892	PowerLED	GU10	3W	5,0	5,3	warm white	100lm

Power consumption: 14mA.

GU10 LED 3x 1W

230~



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux
550841	PowerLED	GU10	3W	5,0	5,3	white	170lm
550842	PowerLED	GU10	3W	5,0	5,3	warm white	150lm

Power consumption: 14mA.

LED GU10 5W

230~



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Colour temperature	Light flux
550521	PowerLED	GU10	5W	5,0	8,0	white	5500K	270lm
550522	PowerLED	GU10	5W	5,0	8,0	warm white	3250K	240lm

Because of the housing dimensions of this bulb, it cannot be used in all GU10 lamps. Information can be obtained from our sales team.

MASTER LED GU10 4W dimmable

230~



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light intensity	Light flux		
560011	PowerLED	GU10	4W	5,0	5,7	2700K	600cd	240lm	25°	Ra80+
560012	PowerLED	GU10	4W	5,0	5,7	2700K	310cd	220lm	40°	Ra80+
560013	PowerLED	GU10	4W	5,0	5,7	3000K	600cd	240lm	25°	Ra80+
560014	PowerLED	GU10	4W	5,0	5,7	3000K	310cd	220lm	40°	Ra80+

Dimmable with leading-edge phase dimmer!

MASTER LED GU10 7W dimmable

230~



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light intensity			
560051	PowerLED	GU10	7W	5,0	8,1	2700K	1100cd	25°	Ra80+	
560052	PowerLED	GU10	7W	5,0	8,1	2700K	430cd	40°	Ra80+	
560053	PowerLED	GU10	7W	5,0	8,1	4000K	1400cd	25°	Ra80+	
560054	PowerLED	GU10	7W	5,0	8,1	4000K	650cd	40°	Ra80+	

Only suitable for open, ventilated lamps.



LED QRB111

12~ 57 pce. 0,09



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux
550121	LED	G53	4,5W	11,1	5,5	white	145lm
550122	LED	G53	4,5W	11,1	5,5	warm white	110lm

Operation only with conventional transformer. Pay attention to the usage rate of the transformer.

POWERLED QRB111

12~ 6 pce. 0,18



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux
550131	PowerLED	G53	10W	11,1	5,8	white	590lm
550132	PowerLED	G53	10W	11,1	5,8	warm white	430lm

Power consumption: 1100mA.

Operation with electronic or conventional transformer. Pay attention to the usage rate of the transformer. Not usable with transformers (461060/-/1107)

MASTER LED QRB111

12~ 8 pce. 0,12



PHILIPS



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light intensity	Light flux		
560031	PowerLED	G53	10W total	11,1	6,05	2700K	3200cd	600lm	24°	Ra80+
560032	PowerLED	G53	10W total	11,1	6,05	2700K	1150cd	570lm	40°	Ra80+
560033	PowerLED	G53	10W total	11,1	6,05	3000K	3370cd	630lm	24°	Ra80+
560034	PowerLED	G53	10W total	11,1	6,05	3000K	1210cd	600lm	40°	Ra80+

Operation is possible with electronic or conventional transformer. Pay attention to the usage rate of the transformer.

LED ES111

230~ 57 pce. 0,25



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux
550111	LED	GU10	3,8W	11,1	6,5	white	190lm
550112	LED	GU10	3,8W	11,1	6,5	warm white	185lm

POWERLED ES111

230~ 6 pce. 0,22



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux	
550341	PowerLED	GU10	10W	11,0	6,9	white	580lm	25°
550342	PowerLED	GU10	10W	11,0	6,9	warm white	460lm	25°
550351	PowerLED	GU10	10W	11,0	6,9	white	590lm	40°
550352	PowerLED	GU10	10W	11,0	6,9	warm white	460lm	40°

DOMELED ES111

230~ 6 pce. 0,27



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux	
550381	PowerLED	GU10	9W	11,0	7,8	white	478lm	25°
550382	PowerLED	GU10	9W	11,0	7,8	warm white	333lm	25°
550391	PowerLED	GU10	9W	11,0	7,8	white	241lm	60°
550392	PowerLED	GU10	9W	11,0	7,8	warm white	176lm	60°

LED GX53

230~ 29 pce. 8,00



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Light flux
550301	LED	GX53	1,2W	7,5	2,5	white	70lm
550302	LED	GX53	1,2W	7,5	2,5	warm white	53lm
■ 550307 ▼	LED	GX53	1,2W	7,5	2,5	blue	-

POWERLED GX53

230~ 3 pce. 0,1



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	LED colour	Colour temperature	Light flux
550091	PowerLED	GX53	3x 1,4W	7,5	3,5	white	5500K	290lm
550092	PowerLED	GX53	3x 1,4W	7,5	3,5	warm white	3250K	270lm
■ 550097	PowerLED	GX53	3x 1,4W	7,5	3,5	blue	-	-



MICROLYNX 6W

230~



SYLVANIA



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category
508421	Energy-saving bulb	GX53	6W	7,5	2,1	3000K	220lm	EEK=B
508422	Energy-saving bulb	GX53	6W	7,5	2,1	4000K	220lm	EEK=B

Direct current operation possible!

GX53 9W

230~



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux
508860	Energy-saving bulb	GX53	9W	7,5	2,7	2700K	260lm
508861	Energy-saving bulb	GX53	9W	7,5	2,7	4200K	260lm

Direct current operation **not** possible!

SHOPLIGHT GX53 111mm

230~



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light intensity	Beam spread	Beam diameter
508550	Energy-saving bulb	GX53	11W	11,1	5,5	3000K	400cd	45°	Ra80
508551	Energy-saving bulb	GX53	11W	11,1	5,5	4000K	400cd	45°	Ra80

Reflector bulb.

ENERGY-SAVING BULB G9 7W, 9W

230~



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category
508930	Energy-saving bulb	G9	7W	3,3	8,0	2700K	285lm	EEK=A
508931	Energy-saving bulb	G9	7W	3,3	8,0	4000K	285lm	EEK=A
508940	Energy-saving bulb	G9	9W	3,3	8,0	2700K	405lm	EEK=A
508941	Energy-saving bulb	G9	9W	3,3	8,0	4000K	405lm	EEK=A

ENERGY-SAVING BULB GU10 7W

230~



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux
508850	Energy-saving bulb	GU10	7W	5,0	6,0	2700K	120lm
508851	Energy-saving bulb	GU10	7W	5,0	6,0	4200K	120lm

Because of the housing dimensions of this bulb, it cannot be used in all GU10 lamps. Information can be obtained from our sales team.

ENERGY-SAVING BULB GU10 9W, 11W

230~



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux
508910	Energy-saving bulb	GU10	9W	5,0	7,6	2700K	200lm
508911	Energy-saving bulb	GU10	9W	5,0	7,6	4000K	200lm
508920	Energy-saving bulb	GU10	11W	5,0	7,6	2700K	220lm
508921	Energy-saving bulb	GU10	11W	5,0	7,6	4000K	220lm

Because of the housing dimensions of this bulb, it cannot be used in all GU10 lamps. Information can be obtained from our sales team.

ENERGY-SAVING BULB SPIRAL-SHAPED GU10 9W

230~



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category
508980	Energy-saving bulb	GU10	9W	3,1	9,0	2700K	420lm	EEK=A
508981	Energy-saving bulb	GU10	9W	3,1	9,0	4000K	420lm	EEK=A

Because of the housing dimensions of this bulb, it cannot be used in all GU10 lamps. Information can be obtained from our sales team.



SHOPLIGHT ES111 11W

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Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light intensity		
508560	Energy-saving bulb	GU10	11W	11,1	8,3	3000K	400cd	Ra80	
508561	Energy-saving bulb	GU10	11W	11,1	8,3	4000K	400cd	Ra80	

Reflector bulb.

ENERGY-SAVING BULB PAR38 E27 20W

230~

OSRAM



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light intensity		
519620	Energy-saving bulb	E27	20W	12,2	13,6	2700K	320cd	Ra80-90	

MINILYNX E14 11W

230~

SYLVANIA



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category	
508630	Energy-saving bulb	E14	11W	4,8	9,6	2700K	575lm	EEK=A	
508631	Energy-saving bulb	E14	11W	4,8	9,6	4000K	575lm	EEK=A	

ENERGY-SAVING BULB E14 7W, 11W

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Size comparison



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category	
508800	Energy-saving bulb	E14	7W	3,6	11,0	2700K	285lm	EEK=A	
508801	Energy-saving bulb	E14	7W	3,6	11,0	4200K	285lm	EEK=A	
508810	Energy-saving bulb	E14	11W	3,8	12,0	2700K	530lm	EEK=A	
508811	Energy-saving bulb	E14	11W	3,8	12,0	4200K	530lm	EEK=A	

MINILYNX E27 11W, 15W, 20W, 23W

230~

SYLVANIA



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category	
508730	Energy-saving bulb	E27	11W	4,8	9,6	2700K	575lm	EEK=A	
508731	Energy-saving bulb	E27	11W	4,8	9,6	4000K	575lm	EEK=A	
508740	Energy-saving bulb	E27	15W	4,8	11,6	2700K	850lm	EEK=A	
508741	Energy-saving bulb	E27	15W	4,8	11,6	4000K	850lm	EEK=A	
508760	Energy-saving bulb	E27	20W	4,8	13,6	2700K	1200lm	EEK=A	
508761	Energy-saving bulb	E27	20W	4,8	13,6	4000K	1200lm	EEK=A	
508770	Energy-saving bulb	E27	23W	4,8	14,8	2700K	1350lm	EEK=A	
508771	Energy-saving bulb	E27	23W	4,8	14,8	4000K	1350lm	EEK=A	

ELD E27 11W

230~



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category	
508211	Energy-saving bulb	E27	11W	4,4	12,4	2700K	580lm	Ra80+	EEK=A

ELD E27 15W

230~

SYLVANIA



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category	
508415	ELD 2-fold Energy-saving bulb	E27	15W	4,5	170	2700K	900lm	Ra80-90	EEK=A
508515	ELD 2-fold Energy-saving bulb	E27	15W	4,5	170	4000K	900lm	Ra80-90	EEK=A

ELT E27 21W, 24W

230~

OSRAM



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category	
508416	ELT 3-fold Energy-saving bulb	E27	21W	4,5	14,5	2500K	1230lm	EEK=A	
508417	ELT 3-fold Energy-saving bulb	E27	24W	5,2	17,3	2500K	1500lm	EEK=A	



ENERGY-SAVING BULB E27 15W, 20W

230~



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category
508820	Energy-saving bulb	E27	15W	6,0	12,8	2700K	800lm	EEK=A
508821	Energy-saving bulb	E27	15W	6,0	12,8	4200K	800lm	EEK=A
508830	Energy-saving bulb	E27	20W	6,6	14,8	2700K	1150lm	EEK=A
508831	Energy-saving bulb	E27	20W	6,6	14,8	4200K	1150lm	EEK=A

ENERGY-SAVING BULB E27 11W, 15W, 23W

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Size comparison



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category
508950	Energy-saving bulb	E27	11W	3,5	10,5	2700K	530lm	EEK=A
508951	Energy-saving bulb	E27	11W	3,5	10,5	4000K	530lm	EEK=A
508960	Energy-saving bulb	E27	15W	4,3	11,0	2700K	800lm	EEK=A
508961	Energy-saving bulb	E27	15W	4,3	11,0	4000K	800lm	EEK=A
508970	Energy-saving bulb	E27	23W	5,2	12,1	2700K	1350lm	EEK=A
508971	Energy-saving bulb	E27	23W	5,2	12,1	4000K	1350lm	EEK=A

ENERGY-SAVING BULB E27, 20W, spiral-shaped, dimmable

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Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category
508870	Energy-saving bulb	E27	20W	5,9	13,6	2700K	1350lm	EEK=A

Dimmable with trailing-edge phase dimmer.

TC-S G23 9W, 11W



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category
508209	TC-S 2-Pin Energy-saving bulb	G23	9W	3,2	16,5	2700K	600lm	EEK=A
508309	TC-S 2-Pin Energy-saving bulb	G23	9W	3,2	16,5	4000K	600lm	EEK=A
508310	TC-S 2-Pin Energy-saving bulb	G23	11W	3,2	23,5	2700K	900lm	EEK=A
508311	TC-S 2-Pin Energy-saving bulb	G23	11W	3,2	23,5	4000K	900lm	EEK=A

TC-D G24d-1 13W / TC-D G24d-2 18W / TC-D G24d-3 26W



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category
508213	TC-D 2-Pin Energy-saving bulb	G24d-1	13W	4,1	13,7	2700K	900lm	EEK=A
508313	TC-D 2-Pin Energy-saving bulb	G24d-1	13W	4,1	13,7	4000K	900lm	EEK=A
508218	TC-D 2-Pin Energy-saving bulb	G24d-2	18W	4,1	15,1	2700K	1200lm	EEK=B
508318	TC-D 2-Pin Energy-saving bulb	G24d-2	18W	4,1	15,1	4000K	1200lm	EEK=B
508226	TC-D 2-Pin Energy-saving bulb	G24d-3	26W	4,1	17,0	2700K	1800lm	EEK=B
508326	TC-D 2-Pin Energy-saving bulb	G24d-3	26W	4,1	17,0	4000K	1800lm	EEK=B

TC-DE G24q-1 13W / TC-DE G24q-2 18W / TC-DE G24q-3 26W



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category
508212	TC-DE 4-Pin Energy-saving bulb	G24q-1	13W	4,1	12,9	3000K	900lm	EEK=A
508312	TC-DE 4-Pin Energy-saving bulb	G24q-1	13W	4,1	12,9	4000K	900lm	EEK=A
508220	TC-DE 4-Pin Energy-saving bulb	G24q-2	18W	4,1	14,6	3000K	1200lm	EEK=B
508320	TC-DE 4-Pin Energy-saving bulb	G24q-2	18W	4,1	14,6	4000K	1200lm	EEK=B
508222	TC-DE 4-Pin Energy-saving bulb	G24q-3	26W	4,1	16,2	3000K	1800lm	EEK=B
508322	TC-DE 4-Pin Energy-saving bulb	G24q-3	26W	4,1	16,2	4000K	1800lm	EEK=B

TC-L 2G11 18W, 24W, 36W, 55W



Article No.	Type	Socket	Wattage	Length in cm	Width in cm	Height in cm	Colour temperature	Light flux	Energy efficiency category	Operat. life
508460	TC-L 2G11 4-Pin Energy-saving bulb	2G11	18W	21,2	4,3	2,4	2700K	1200lm	EEK=A	10000 h
508461	TC-L 2G11 4-Pin Energy-saving bulb	2G11	18W	21,2	4,3	2,4	4000K	1200lm	EEK=A	10000 h
508440	TC-L 2G11 4-Pin Energy-saving bulb	2G11	24W	32,0	4,3	2,4	2700K	1800lm	EEK=A	10000 h
508441	TC-L 2G11 4-Pin Energy-saving bulb	2G11	24W	32,0	4,3	2,4	4000K	1800lm	EEK=A	10000 h
590144	TC-L 2G11 4-Pin Energy-saving bulb	2G11	36W	41,5	4,3	2,4	2700K	2900lm	EEK=A	12000 h
590145	TC-L 2G11 4-Pin Energy-saving bulb	2G11	36W	41,5	4,3	2,4	4000K	2900lm	EEK=A	12000 h
508450	TC-L 2G11 4-Pin Energy-saving bulb	2G11	55W	53,3	4,3	2,4	2700K	4800lm	EEK=A	10000 h
508451	TC-L 2G11 4-Pin Energy-saving bulb	2G11	55W	53,3	4,3	2,4	4000K	4800lm	EEK=A	10000 h



RING TUBE T5 22W, 40W / T8 32W, 40W



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Colour temperature	Light flux	Energy efficiency category	Operat. life
548220	Energy-saving bulb	2GX13	22W	22,5	3000K	1900lm	Ra85	EEK=A	12000 h
548221	Energy-saving bulb	2GX13	22W	22,5	4000K	1900lm	Ra85	EEK=A	12000 h
548240	Energy-saving bulb	2GX13	40W	30,0	3000K	3400lm	Ra85	EEK=A	12000 h
548241	Energy-saving bulb	2GX13	40W	30,0	4000K	3400lm	Ra85	EEK=A	12000 h
548230	Energy-saving bulb	G10q	32W	30,0	3000K	2375lm	Ra85	EEK=B	9000 h
548231	Energy-saving bulb	G10q	32W	30,0	4000K	2375lm	Ra85	EEK=B	9000 h
548210	Energy-saving bulb	G10q	40W	40,6	3000K	3200lm	Ra85	EEK=B	9000 h
548211	Energy-saving bulb	G10q	40W	40,6	4000K	3200lm	Ra85	EEK=B	9000 h

SURCHARGE FOR 3pce PACKAGING
for T5 and T8 bulbs (except ring tubes):

Type	Versions				Article No.
T5	8W	13W	14W	24W	980010
T5	21W	28W	39W	54W	980011
T5	35W	-	-	-	980012
T8	18W	-	-	-	980013
T8	36W	-	-	-	980014

T5 8W, 13W, 14W, 21W, 24W, 28W, 35W, 39W, 54W/T5 COLOUR 21W, 35W/T8 18W/T8 COLOUR 36W



Article No.	Type	Socket	Wattage	Ø in cm	Length in cm	Light colour	Colour temperature	Light flux	Energy efficiency category	Operat. life	
591293	Energy-saving bulb	G5	8W	1,6	28,8	warm white	3500K	400lm	-	-	
591294	Energy-saving bulb	G5	8W	1,6	28,8	cold white	4300K	400lm	-	-	
591295	Energy-saving bulb	G5	13W	1,6	53,0	warm white	3000K	880lm	-	-	
591296	Energy-saving bulb	G5	13W	1,6	53,0	cold white	4300K	880lm	-	-	
548014	Energy-saving bulb	G5	14W	1,6	54,9	warm white	3000K	1230lm	Ra85	24000 h	
548114	Energy-saving bulb	G5	14W	1,6	54,9	cold white	4000K	1230lm	Ra85	24000 h	
Packaging unit: 25 pieces - 3pce. packaging with surcharge is possible, see info box above.											
548021	Energy-saving bulb	G5	21W	1,6	85,0	warm white	3000K	1910lm	Ra85	24000 h	
548121	Energy-saving bulb	G5	21W	1,6	85,0	cold white	4000K	1910lm	Ra85	24000 h	
548024	Energy-saving bulb	G5	24W	1,6	55,0	warm white	3000K	1700lm	Ra85	24000 h	
548124	Energy-saving bulb	G5	24W	1,6	55,0	cold white	4000K	1700lm	Ra85	24000 h	
548028	Energy-saving bulb	G5	28W	1,6	115,0	warm white	3000K	2640lm	Ra85	24000 h	
548128	Energy-saving bulb	G5	28W	1,6	115,0	cold white	4000K	2640lm	Ra85	24000 h	
548035	Energy-saving bulb	G5	35W	1,6	145,0	warm white	3000K	3320lm	Ra85	24000 h	
548135	Energy-saving bulb	G5	35W	1,6	145,0	cold white	4000K	3320lm	Ra85	24000 h	
548039	Energy-saving bulb	G5	39W	1,6	85,0	warm white	3000K	3220lm	Ra85	24000 h	
548139	Energy-saving bulb	G5	39W	1,6	85,0	cold white	4000K	3220lm	Ra85	24000 h	
548054	Energy-saving bulb	G5	54W	1,6	115,0	warm white	3000K	4450lm	Ra85	24000 h	
548154	Energy-saving bulb	G5	54W	1,6	115,0	cold white	4000K	4450lm	Ra85	24000 h	
Packaging unit: 10 pieces - 3pce. packaging with surcharge is possible, see info box above.											
548167	Energy-saving bulb	G5	21W	1,6	85,0	blue	-	-	-	-	
548175	Energy-saving bulb	G5	35W	1,6	145,0	green	-	-	-	-	
548176	Energy-saving bulb	G5	35W	1,6	145,0	red	-	-	-	-	
548177	Energy-saving bulb	G5	35W	1,6	145,0	blue	-	-	-	-	
548201	Energy-saving bulb	G13	18W	2,6	59,0	cold white	4000K	1350lm	Ra85	20000 h	
548202	Energy-saving bulb	G13	18W	2,6	59,0	warm white	3000K	1350lm	Ra85	20000 h	
548195	Energy-saving bulb	G13	36W	2,6	120,0	green	-	3040lm	-	-	
548196	Energy-saving bulb	G13	36W	2,6	120,0	red	-	1250lm	-	-	
548197	Energy-saving bulb	G13	36W	2,6	120,0	blue	-	700lm	-	-	
Packaging unit: 25 pieces - 3pce. packaging with surcharge is possible, see info box above.											

