

POWER SUPPLY UNITS

MLMC



Specifications

Power Supply Units MLMC	
Material	PA
Frequency	50/60 Hz
Environment/Applications	Indoor
IP Rate	IP20
Operating Temperature	-20°C / +45°C
Safety Marks	EN61347-1 / EN61547 / EN61547-2-13
EMC Compliance	EN55015 / EN61000-3-2 / DIN VDE 0710-T14
Single Carton Quantity	1 pc
Package Type	Plastic Bag
Expected Lifespan (at 25°C - L70/B10)	70.000 Hrs
Warranty	7 Years

Product Specifications

Description	Item Code	Watt	Current	Type	Efficiency	Pf	Ripple
PS TCI 122198	05CW03MLMC00	20W	350/500/700mA	No-dim	85%	0.93	<3%
PS TCI 122201	05CA03MLMC00	20W	350/500/700mA	No-dim	89%	0.95	<3%
PS TCI 122400	05CC03MLMC00	20W	350/500/700mA	1-10V & Push	89%	0.95	<3%
PS TCI 122403	05CD03MLMC00	20W	350/500/700mA	DALI	85%	0.95	<3%
PS TCI 122221	05CV03MLMC00	26W	350/500/700mA	No-dim	89%	0.95	<20%
PS TCI 122217	05CF03MLMC00	32W	700/900/1000mA ¹	No-dim	89%	0.95	<20%
PS TCI 122260	05CG03MLMC00	32W	700mA	Triac & Push	89%	0.97	<3%
PS TCI 122200	05CE03MLMC00	32W	700mA	No-dim	88%	0.98	<3%
PS TCI 122421	05CH03MLMC00	32W	700mA	1-10V & Push	88%	0.98	<3%
PS TCI 122424	05CJ03MLMC00	32W	700mA	DALI	87%	0.98	<3%
PS TCI 127024	05CS03MLMC00	39W	700/900/1050mA	No-dim	90%	0.95	<3%
PS TCI 127021	05CT03MLMC00	39W	700/900/1050mA	1-10V	90%	0.95	<3%
PS TCI 127028	05CU03MLMC00	39W	700/900/1050mA	DALI	90%	0.95	<3%
PS TCI 122220	05CL03MLMC00	50W	700/900/1050mA	No-dim	91%	0.95	<20%
PS TCI 122204	05CK03MLMC00	50W	700/900/1050mA	No-dim	91%	0.95	<3%
PS TCI 122413	05CM03MLMC00	50W	700/900/1050mA	DALI & 1-10V & Push	91%	0.95	<3%
PS TCI 122208/4	05CP03MLMC00	55W	1200/1400mA	No-dim	91%	0.98	<3%
PS TCI 122417/4	05CQ03MLMC00	55W	1200/1400mA	DALI & 1-10V & Push	91%	0.98	<3%

Logistics Product Data

Description	Item Code	Watt	Input Voltage	Dimensions	Weight	Type	B-16A Fuse
PS TCI 122198	05CW03MLMC00	20W (36V)	220-240V	110x52x22 mm	108 gr	5A 50µS	50 Pcs
PS TCI 122201	05CA03MLMC00	20W (28V)	220-240V	110x52x22 mm	108 gr	5A 50µS	50 Pcs
PS TCI 122400	05CC03MLMC00	20W (36V)	220-240V	110x52x22 mm	112 gr	5A 50µS	50 Pcs
PS TCI 122403	05CD03MLMC00	20W (28V)	220-240V	103x67x21 mm	115 gr	5A 50µS	50 Pcs
PS TCI 122221	05CV03MLMC00	26W (37V)	220-240V	130x42x30 mm	109 gr	5A 50µS	50 Pcs
PS TCI 122217	05CF03MLMC00	32W (32V) ¹	220-240V	166x46x34 mm	109 gr	5A 50µS	50 Pcs
PS TCI 122260	05CG03MLMC00	32W (46V)	220-240V	103x67x21 mm	166 gr	5A 50µS	50 Pcs
PS TCI 122200	05CE03MLMC00	32W (46V)	220-240V	103x67x21 mm	132 gr	5A 50µS	50 Pcs
PS TCI 122421	05CH03MLMC00	32W (46V)	220-240V	103x67x21 mm	138 gr	5A 50µS	50 Pcs
PS TCI 122424	05CJ03MLMC00	32W (46V)	220-240V	103x67x21 mm	138 gr	5A 50µS	50 Pcs
PS TCI 127024	05CS03MLMC00	39W (37V)	220-240V	103x67x21 mm	132 gr	5A 50µS	50 Pcs
PS TCI 127021	05CT03MLMC00	39W (37V)	220-240V	103x67x21 mm	138 gr	5A 50µS	50 Pcs
PS TCI 127028	05CU03MLMC00	39W (37V)	220-240V	103x67x21 mm	138 gr	5A 50µS	50 Pcs
PS TCI 122220	05CL03MLMC00	50W (48V)	220-240V	160x83x35 mm	184 gr	5A 50µS	50 Pcs
PS TCI 122204	05CK03MLMC00	50W (48V)	220-240V	129x76x30 mm	208 gr	20A 400µS	15 Pcs
PS TCI 122413	05CM03MLMC00	50W (48V)	220-240V	124x79x22 mm	218 gr	20A 400µS	15 Pcs
PS TCI 122208/4	05CP03MLMC00	55W (39V)	220-240V	173x83x35 mm	284 gr	10A 200µS	30 Pcs
PS TCI 122417/4	05CQ03MLMC00	55W (39V)	220-240V	173x83x35 mm	284 gr	10A 200µS	30 Pcs

¹ 45V at 700 mAmp

TCI POWER SUPPLIES

Compliant with Health Norms

TCI RIPPLE FREE LED Drivers (<3%) ensure the lowest level of light flickering. In low and higher output levels, the flickering is reduced to a level, imperceptible for the human eye. However, surveys have proven a relation between flickering and health problems. Therefore, the application of lighting systems with a lower flicker index is an important factor in both commercial and residential areas.

Video/Photo Proof

Lighting with a low flickering index is essential in areas where photo and video cameras are used. Flickering light sources have a negative effect on the quality of photos and video footage.

Longer Lifetime

In addition to negative effects for human health, HIGH RIPPLE current will harm the LED, the LED driver and the efficiency of the system in general.

Surge Protection

The TCI drivers are protected against surges up to 4kV. This is well above the norm of 1kV. Many LED bulbs are protected up to 500V. The surge protection level of the TCI drivers results in an extremely low defect rate of around 0,1%.

Higher Light Output

A LED Driver with a lower ripple factor is 5% more efficient in terms of Light Output.

Ripple Free

TCI LED drivers are provided with a sophisticated multistage circuit to supply the LEDs with a perfect current (a line). Low quality drivers with a poor ripple factor may cause problems including headache, eye strain, impaired visual performance or, in extreme cases, epileptic seizure.



TCI POWER SUPPLIES

FEATURES & BENEFITS

- Surge protected up to 4kV
- Various Dimming Options (1-10V, Push, DALI)
- Multiple Output Current Options through DIP Switch Settings
- Heat Generation at Full Load stays well below the allowed max. 70°C (Tc)
- Upcoming Versions with Bluetooth Low Energy Compatibility
- ENEC/EMC compliant
- Strain Relief in accordance with European Safety Standards
- Active Power Factor (PF) Correction
- Highest Quality A-Brand Electronic Components

SAFETY AND SECURITY

- Excessive Heat / Short Circuit Protection
- Protection against voltage spikes in the Electricity Net
- Overload Protection

Reference Norms

EN 50172 (VDE 0108)
EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547 VDE 0710-T14

PERFORMANCE OPTIONS

75 / 90 MLMC 26V

NO DIM Ripple < 20%	NO DIM Ripple < 3%	1-10V Ripple < 3%	DALI Ripple < 3%	Lamp Wattage	Lamp Current	Lumen Output			Lumen / Watt		
						2700K	3000K	4000K	2700K	3000K	4000K
122221	122201	122400	122403	8,5W	350 mA	525	675	800	62	79	94
122221	122201	122400	122403	12W	500 mA	715	900	1075	60	75	90
122221	122201	122400	122403	17W	700 mA	1000	1250	1500	59	73	88

185 MLMC 28V

NO DIM Ripple < 20%	NO DIM Ripple < 3%	1-10V Ripple < 3%	DALI Ripple < 3%	Lamp Wattage	Lamp Current	Lumen Output		Lumen / Watt	
						3000K	4000K	3000K	4000K
122221	122198	122400	122403	9W	350 mA	1250	1300	139	144
122221	122198	122400	122403	13W	500 mA	1750	1800	135	140
122221	122198	122400	122403	18W	700 mA	2400	2500	133	138
122217	127024 ¹	127021	127028 ¹	24W	900 mA	3000	3150	125	126
122220	127024 ¹	127021	127028 ¹	29W	1050 mA	3500	3650	120	123
X	122208/4	122417/4	122417/4	34W	1200 mA	3850	4000	115	119
X	122208/4	122417/4	122417/4	38W	1400 mA	4350	4500	113	118

¹ Available from Q3 2015

LedPanel MLMC 45V 595x595

NO DIM Ripple < 20%	NO DIM Ripple < 3%	1-10V Ripple < 3%	DALI Ripple < 3%	Lamp Wattage	Lamp Current	Lumen Output 595x595			Lumen / Watt 595x595		
						3000K	4000K	6500K	3000K	4000K	6500K
122217	122200	122421	122424	14W	350 mA	1850	1950	2050	132	139	146
122217	122200	122421	122424	21W	500 mA	2600	2750	2900	124	131	138
122217	122200	122421	122424	23W	550 mA	2850	2950	3050	123	128	133
122217	122200	122421	122424	30W	700 mA	3400	3650	3900	113	122	130
122220	122204	122413	122413	39W	900 mA	4300	4550	4800	110	117	123
122220	122204	122413	122413	46W	1050 mA	4850	5200	5500	105	113	120

LedPanel MLMC 45V 1195x295

NO DIM Ripple < 20%	NO DIM Ripple < 3%	1-10V Ripple < 3%	DALI Ripple < 3%	Lamp Wattage	Lamp Current	Lumen Output 1195x295			Lumen / Watt 1195x295		
						3000K	4000K	6500K	3000K	4000K	6500K
122217	122200	122421	122424	14W	350 mA	1950	2100	2250	139	150	161
122217	122200	122421	122424	21W	500 mA	2750	2900	3050	131	138	145
122217	122200	122421	122424	23W	550 mA	3000	3150	3300	130	137	143
122217	122200	122421	122424	30W	700 mA	3650	3900	4150	122	130	138
122220	122204	122413	122413	39W	900 mA	4650	4900	5150	119	126	132
122220	122204	122413	122413	46W	1050 mA	5250	5600	5950	114	122	129

LINEA DS-A & DS-A TWIN - PSU / PERFORMANCE OPTIONS

NO DIM Ripple < 20%	NO DIM Ripple < 3%	1-10V Ripple < 3%	DALI Ripple < 3%	Lamp Wattage	Lamp Current	Lumen Output			Lumen / Watt		
						CRi80	CRi80	CRi96	CRi80	CRi80	CRi96
						3000K	4000K	3000K	3000K	4000K	3000K
122221	122198	127021	127028 ¹	12W	350 mA	1250	1350	1000	104	112	83
122221	122198	127021	127028 ¹	18W	500 mA	1850	2000	1500	103	110	82
122221	127024 ¹	127021	127028 ¹	25W	700 mA	2500	2650	2000	100	106	80
122217	127024 ¹	122413	122413 ¹	32W	900 mA	3000	3200	2500	96	100	78

¹ Available from Q3 2015

LINEA DS-F - PSU / PERFORMANCE OPTIONS

NO DIM Ripple < 20%	NO DIM Ripple < 3%	1-10V Ripple < 3%	DALI Ripple < 3%	Lamp Wattage	Lamp Current	Lumen Output			Lumen / Watt		
						CRi80	CRi80	CRi96	CRi80	CRi80	CRi96
						3000K	4000K	3000K	3000K	4000K	3000K
122221	122198	127021	127028 ¹	12W	350 mA	1250	1350	1000	104	112	83
122221	122198	127021	127028 ¹	18W	500 mA	1850	2000	1500	103	110	82
122221	127024 ¹	127021	127028 ¹	25W	700 mA	2500	2650	2000	100	106	80
122217	127024 ¹	127021	127028 ¹	32W	900 mA	3000	3200	2500	96	100	78
122220	127024 ¹	127021	127028 ¹	37W	1050 mA	3300	3500	2700	89	95	73
X	122208/4	122417/4	122417/4	43W	1200 mA	3750	3950	3050	87	92	71
X	122208/4	122417/4	122417/4	50W	1400 mA	4300	4500	3500	86	90	70

¹ Available from Q3 2015