

## LED Power Supply 10W Programmable



### Features:

- 10 Watt
- Single output adjustable constant current supply for LED's
- Universal input voltage
- Power factor >0.9
- High efficiency
- High MTBF
- Small size 100x40x25(H)mm (excludes fixings)
- Cased – Class II
- Low cost
- Low standby power
- Low touch currents
- Meets requirements of EN55022 'B' for conducted noise
- Output current adjustment built in
- Externally adjustable via pot, voltage or PWM

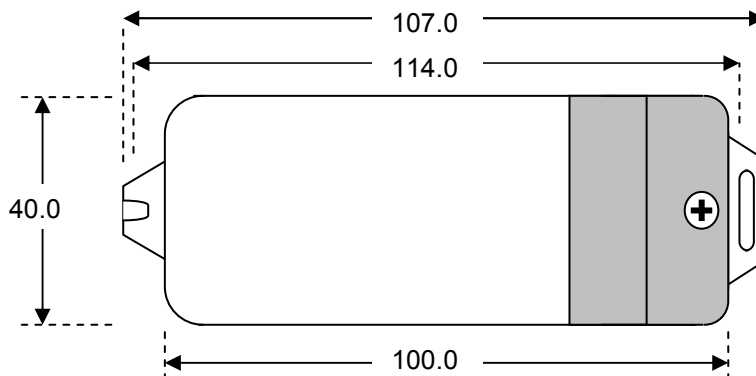
### Specification:

INPUT	
Input voltage	100 – 230 Vac +/-10%
Frequency Range	50-60Hz
Temperature Range	0 – 50°C ambient (Convection cooled)
Input fuse	T0.63mA 250V CQ
Input Current	175mA (90Vacin maximum loading)
Power Factor	> 0.95 (50-100% load)
No load power	< 1W (230vacin)
Start-up	Less than 1 second, 100Vacin
OUTPUT	
Output Power	10W 100Vacin in a 50°C ambient (derate 10 % below 100V) 16W 230Vacin in a 50°C ambient
Open circuit output Voltage	SELV
Output Current	Factory set at 350mA, 500mA or 700mA (3V - 30V) (Adjustable via built in potentiometer, typically 30-107% maximum load see output power)
External Programming Input (Pin A positive)	If required output can be controlled via any of the following methods  1) 10kΩ pot across adjust pins can adjust output 30-100% 2) An external voltage source can be used to adjust output 30-100% 3) Pulse width control achieved by pulling down pin A of the control inputs (Recommended control frequency 100HZ) 0-100% The programming inputs can also be used as Enable / Remote off. (Shorting pins together turns unit off)
<b>Note.</b> For external dimming, output should be set to maximum required current by first setting to maximim the onboard pot.	
Efficiency	Up to 85%
OVP	Latching none dissipative
Over current / Short Circuit	Constant current output
Load regulation	+/- 3% 3-30 volts 350 mA out
Line regulation	+/- 1%
Noise & ripple	Typically < 1% (DC – 10MHz) (230vacin – Full load)
ENVIRONMENT	
Temperature	0°C to +50°C
Cooling	Convection only
Humidity	10-95% non-condensing
Storage	-25°C to +85°C
MTBF	>250,000hrs 25°C (MIL217F parts count method)

### Specification:

SAFETY & REGULATORY SPECIFICATIONS	
PSU Class	Class II:- Stand alone power supply
Safety	Certified to EN60950 (EN61347 Pending), CE marked against LVD
Flash test	I/p to O/p, 4300V DC
Earth leakage current	None
Output touch current	<150uA rms (230Vacin 50Hz))
EMC – Conducted	Meets requirements of EN55022 “Class B” (EN55015 Pending)
EMC – Radiated	Designed to meet requirements of EN55022 “Class A” (EN55015 Pending)
EMC - Power Factor	Meets requirements for EN61000-3-2 “Class C” (passes requirement but is Exempt due to power level)
EMC – Voltage Fluctuations	Designed to meet requirements of EN61000-3-3
EMC – Fast Transients	Designed to meet requirements of EN61000-4-4
EMC – Surge	Designed to meet requirements of EN61000-4-5
MECHANICAL	
Dimensions	100.0mm x 40.0mm x 25.0mm (H) (excluding fixings)
Fixings	See below
Power Input Connector	2W 5mm pitch Screw Terminal block
Programming Input Connector	2W Molex KK 2.54mm pitch or equivalent
Output Connector	2W 5mm pitch Screw Terminal block
Pin-out	See below
Weight	110grams

Technical specification may be subject to change – contact sales office before ordering.



Pin A programming I/P  
 Pin B programming I/P  
 0 Volts O/P  
 + .VO/P  
 Live I/P  
 Neutral I/P

### Mounting and connection diagram

Data sheets are subject to change without notice

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