

# LUXOR-16P series

**160W** switching power supply



#### **Features**

- AC input voltage range selected by switch.
- Small volume, low weight, high efficiency.
- Protections: short circuit/over load/over voltage/over temperature.
- · Cooling by free air convection.
- LED indicator for power on.
- 100% full load burn-in test.
- 2 years warranty.





Model	LUXOR-16P5	LUXOR-16P12	LUXOR-16P15	LUXOR-16P24
DC Voltage	5V	12V	15V	24V
Voltage tolerance	±1%	±1%	±1%	±1%
Rated current	30A	13.4A	10.7A	6.7A
Current range	0 ~ 30A	0 ~ 13.4A	0 ~ 10.7A	0 ~ 6.7A
Rated power	150W	160W	160W	160W
Ripple&noise	150mVp-p	180mVp-p	200mVp-p	240mVp-p
DC voltage ADJ. range	±10%	±10%	±10%	±10%
Setup, rise, hold up time	1000ms, 100ms, 30ms/230VAC			
Voltage range	90 ~ 132VAC/180 ~ 264VAC (selected by switch) 47 ~ 63Hz, 255 ~ 373VDC			
AC current	4.0A/115V 2.0A/230VAC			
Efficiency	80%	83%	85%	85%
Inrush current	Cold start 18A/115V 36A/230VAC			
Leakage current	<3.5mA/240VAC			
Overload	Rated output power 115% ~ 150% Start overload protection			
	Protection type: hiccup mode, auto-recovery after fault condition is removed			
Over voltage	Rated output power 115% ~ 135% Start overload protection			
	Protection type: hiccup mode, auto-recovery after fault condition is removed			
Over temperature	≥85°C±5°C (TSW1 detect on heat sink of power transistor)			
	Protection mode: cutoff output, auto-recovery after temperature become normal			
Working temp, humidity	-10°C ~ +60°C; 20% ~ 90% RH (Please refer to "derating curve")			
Storage temp, humidity	-20°C ~ +85°C; 10% ~ 95% RH Non-condensing			
Withstand vibration	10 ~ 500Hz, 2G 10 min/1 Cycle, Period for 60min, Each axes			
Withstand voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
Isolation resistance	I/P-O/P: I/P-FG, O/P-FG: 100M Ohms/500VDC			
Safety standard	EN61347-1; EN61347-2-13			
EMC standard	EN55015; EN61547			
Weight	0.65kg			
Dimension	199*98*38mm ( L*W*H )			
Packing	0.65kg/30pcs/20.5kg/1.20CUFT			
	DC Voltage  Voltage tolerance  Rated current  Current range  Rated power  Ripple&noise  DC voltage ADJ. range  Setup, rise, hold up time  Voltage range  AC current  Efficiency  Inrush current  Leakage current  Overload  Over voltage  Over temperature  Working temp, humidity  Storage temp, humidity  Withstand vibration  Withstand voltage  Isolation resistance  Safety standard  EMC standard  Weight  Dimension	DC Voltage         5V           Voltage tolerance         ±1%           Rated current         30A           Current range         0 ~ 30A           Rated power         150W           Ripple&noise         150mVp-p           DC voltage ADJ. range         ±10%           Setup, rise, hold up time         1000ms, 100ms, 30r           Voltage range         90 ~ 132VAC/180 ~ 3           AC current         4.0A/115V 2.0A/230           Efficiency         80%           Inrush current         Cold start 18A/115V           Leakage current         <3.5mA/240VAC	DC Voltage         5V         12V           Voltage tolerance         ±1%         ±1%           Rated current         30A         13.4A           Current range         0 ~ 30A         0 ~ 13.4A           Rated power         150W         160W           Ripple&noise         150mVp-p         180mVp-p           DC voltage ADJ. range         ±10%         ±10%           Setup, rise, hold up time         1000ms, 100ms, 30ms/230VAC           Voltage range         90 ~ 132VAC/180 ~ 264VAC (selected by state of the st	DC Voltage         5V         12V         15V           Voltage tolerance         ±1%         ±1%         ±1%           Rated current         30A         13.4A         10.7A           Current range         0 ~ 30A         0 ~ 13.4A         0 ~ 10.7A           Rated power         150W         160W         160W           Ripple&noise         150mVp-p         180mVp-p         200mVp-p           DC voltage ADJ. range         ±10%         ±10%         ±10%           Setup, rise, hold up time         1000ms, 30ms/230VAC         100ms, 30ms/230VAC           Voltage range         90 ~ 132VAC/180 ~ 264VAC (selected by switch) 47 ~ 63Hz, 25th 4.0A/115V 2.0A/230VAC         264VAC (selected by switch) 47 ~ 63Hz, 25th 4.0A/115V 2.0A/230VAC           Efficiency         80%         83%         85%           Inrush current         Cold start 18A/115V 36A/230VAC           Leakage current         <3.5mA/240VAC

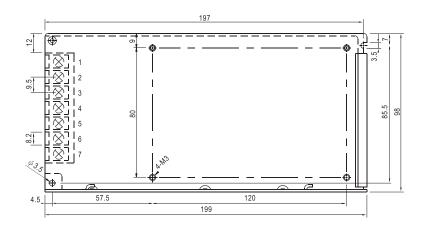
#### Note:

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.



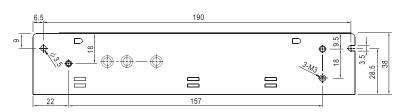
## **Mechanical specification**

Unit mm

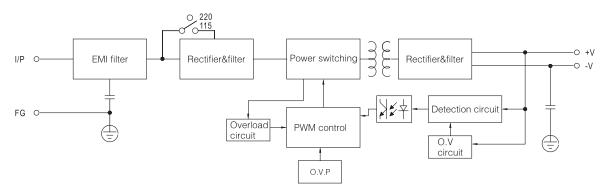


#### Terminal Pin No. Assigment

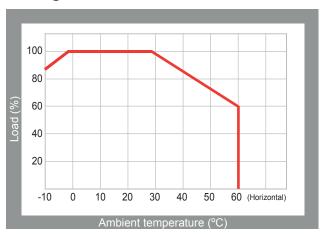
Pin No	Pin No Assignment	
1	AC/L	
2	AC/N	
3	FG <del></del>	
4~5	DC OUTPUT -V	
6~7	DC OUTPUT +V	



## **Block diagram**



## **Derating curve**



### Static characteristics

