

100Watt,Single Output Switching Power Supply



FEATURES:

- Universal Input 90~264VAC
- High Efficiency at 90% Typical
- Protection: Short Circuit /Over current/Over voltage/over temperature
- Power Factor Correction
- Internal Input Filter
- IP67 design for indoor or outdoor installations
- Application: Suitable for LED lighting and moving sign applications

LG A 100 - S 48
A B C D E

A:Series
B:Package
C:Output Watt
D:Single(S) Output
E:Output Voltage

CE IP67

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Output Voltage	Constant Current Region	Max Output Current	Max Output power	Efficiency
	(V)	(V) (Note1)	(mA) (Note2)	(W) (Note2)	%(TYP)
LGA060-S12	12.0	6~12	5000	60.0	88
LGA075-S15	15.0	7.5~15	5000	75.0	88
LGA100-S20	20.0	10~20	4800	96.0	88
LGA100-S24	24.0	12~24	4000	96.0	88
LGA100-S27	27.0	13.5~27	3550	96.0	89
LGA100-S36	36.0	18~36	2650	96.0	90
LGA100-S48	48.0	24~48	2000	96.0	90

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated input voltage	Io nom		100-240		Vac
Voltage Range	Io nom	90		264	Vac
	Io nom	127		370	Vdc
Frequency		47	50/60	63	Hz
Inrush Current	At 100Vac			30	A
	At 240Vac			60	A
Input Over-Current protection		VDE/UL/CCC FUSE 3.15A/250V			
Power Factor		PF> 0.95 / 230Vac PF> 0.98 / 115Vac at full load			

Output Specifications

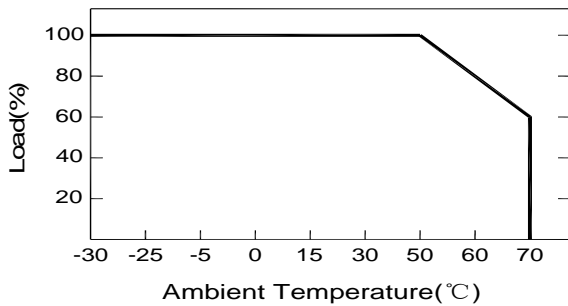
Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom			±3	%
	Io nom	12V...27V Models			
		36...48V Models		±2	%
Line Regulation	Io nom, Vi min...Vi max		±1		%
Load Regulation	Vi nom		±2		%
Protection	Over Current	95% -100% rated output power(Constant current limiting)			
		Protection type: Recovers automatically after fault condition is removed			
	Over Voltage	110%-135% rated output Voltage			
Protection type: Recovers automatically after fault condition is removed					
	Short circuit	Recovers automatically after fault condition is removed			

Note. 1.Constant current operation region is within 50%~100% rated output voltage, This is the suitable operation region for LED related applications,but please reconfirm special electrical requirements for some specific system design.
2.This is the maximum possible output current and power,over load protection may be activated slightly below this level.

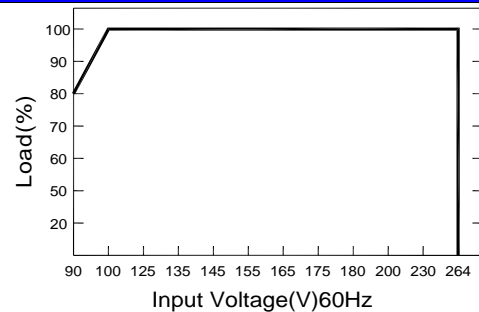
100Watt,Single Output Switching Power Supply

General Specifications					
Parameters	Conditions	Min	Typ	Max	Units
MTBF	MIL-HDBK-217F(25°C)	300,000			Hrs
Isolation Voltage	Input To Output	3000VAC/5mA/5Secs			
Isolation Resistance	I/P-O/P 500Vdc/25°C/70%RH	100			Mohms
EMI Conduction&Radiation	Compliance to EN55015, EN55022 (CISPR22) Class B				
Harmonic Current	Compliance to EN61000-3-2 Class C; EN61000-3-3				
EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 4KV), criteria A				
Safety Standards	EN60950-1, EN61347-1, EN61347-2-13,IP67 approved				
Operating Temperature	Operating at Vi nom,Io nom	-30		+70	°C
Derating	Vi nom,Io nom+51 to 71°C			2	%/°C
Storage Temperature		-45		+85	°C
Size	L210x W65.0 x H40.0mm				

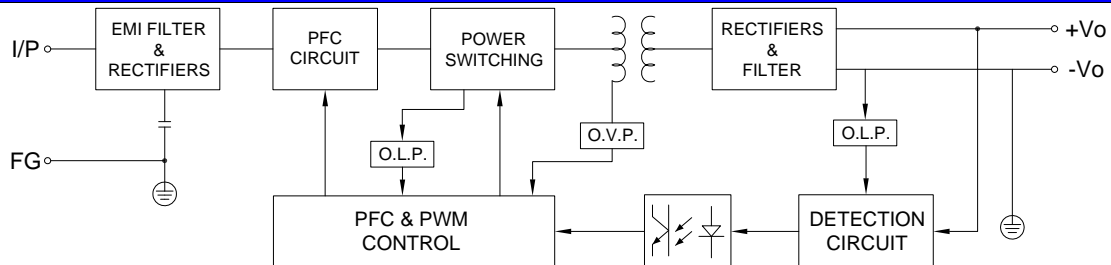
Derating Curve



Output Derating VS Input Voltage



Circuit Schematic



Markings and dimensions



UNIT:mm Unless otherwise specified,all tolerances are ±0.50