

100Watt, Four Output Switching Power Supply

FEATURES:

- Universal Input 90~264VAC
- Efficiency at 85% TYP
- 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
- 2 Years Warranty ● ROHS Compliant

LG A 100 - F 36
A B C D E

A: Series
B: Package
C: Output Watt
D: Four Output
E: Output Voltage

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

Part Number	Output Wattage	Output Voltage	Constant Current Region(Note)	Output Current	Efficiency
	(W)	(V)	(V)	(mA)	%(TYP)
LGA100-F36	23.4	Vo1=+36.0	30~36	650 ± 30	85
	23.4	Vo2=+36.0	30~36	650 ± 30	
	23.4	Vo3=+36.0	30~36	650 ± 30	
	23.4	Vo4=+36.0	30~36	650 ± 30	

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated input voltage	Vo,lo nom		100-240		Vac
Voltage Range	Vo,lo nom	90		264	Vac
Frequency		47	50/60	63	Hz
Input Current	Vo,lo nom			1.2	A
Inrush Current	At 100Vac			30	A
	At 240Vac			60	A
Input Fuse	VDE/UL/CCC FUSE 3.15A/250V(Slow Blow)				
Power Factor	PF> 0.95 / 100~240Vac at full load				

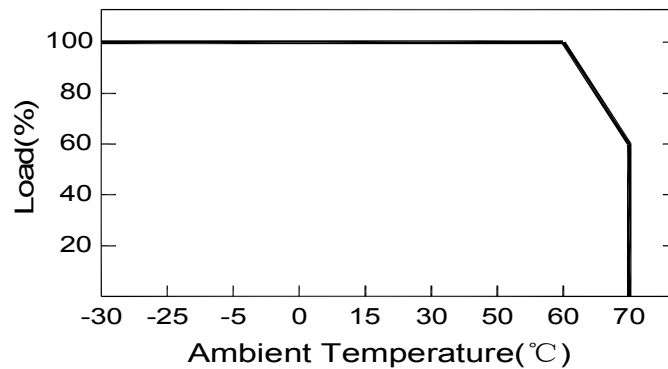
Output Specifications

Parameters	Conditions		Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom,lo nom	Vo			±3	%
Line Regulation	lo nom,Vi min...Vi max			±1		%
Load Regulation	Vi nom, lo min...lo nom	Vo		±2		%
Protection	Over Current		680mA MAX			
			Protection type: Recovers automatically after fault condition is removed			
	Over Voltage		110%-135% rated output Voltage			
			Protection type: Shut off o/p voltage, re-power on to recover			
Short circuit		Recovers automatically after fault condition is removed				

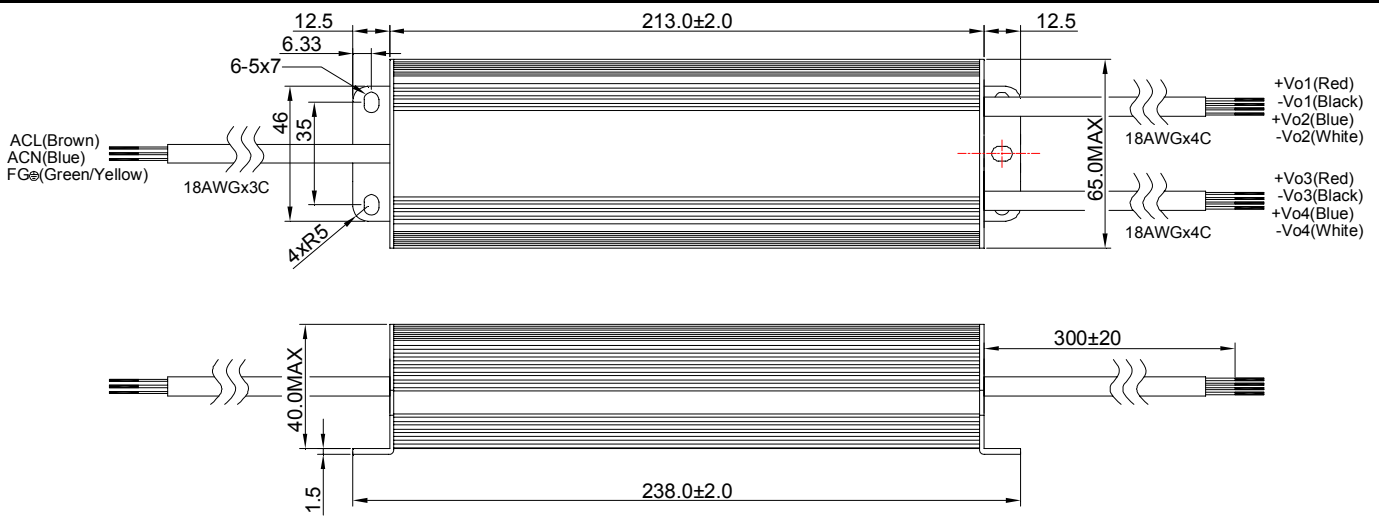
Note. Constant current operation region is within 80%~100% rated output voltage, This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.

General Specifications					
Parameters	Conditions	Min	Typ	Max	Units
EMI Conduction&Radiation	Design refer to EN55015, EN55022 (CISPR22) Class B				
Harmonic Current	Design refer to EN61000-3-2 Class C; EN61000-3-3				
EMS Immunity	Design refer to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 4KV), criteria A				
Safety Standards	Design refer to EN60950-1, EN61347-1, EN61347-2-13,IP67				
Isolation Voltage	Input / Output	3KVac/ 5mA/5Secs			
Isolation Resistance	I/P-O/P 500Vdc/25°C/70%RH	100			MΩ
Operating Temperature	Operating at Vi nom,lo nom	-30		+70	°C
Derating	Vi nom,lo nom+61 to 71°C			2	%/°C
Storage Temperature	Non Operational	-45		+85	°C
Relative Humidity	Vi nom,lo nom			95	% RH
Dimension	L213.0 x W65.0 x H40.0				mm
Cooling	Free air convection				

Temperature Derating Graph



Markings and dimensions



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