

## LD100G Series 100W 12~57V Output

### Features:

- \* Universal AC input 90~305Vac.
- \* Constant Voltage / Constant Current Operation.
- \* Suitable for High Brightness Light-Emitting Diode products.
- \* Built-in ACTIVE PFC Function.
- \* Protections: OVP / OCP / SCP / OTP.
- \* IP67 design for indoor or outdoor installations
- \* Cooling by free air convection.
- \* Optional Timer Dimming For Power Saving.



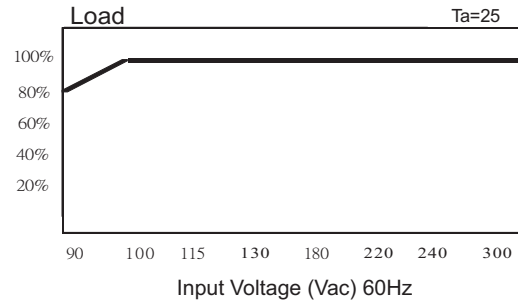
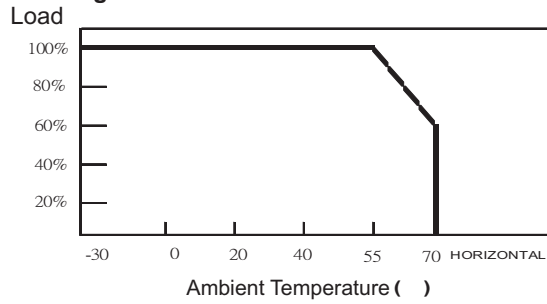
222 \* 68 \* 39 mm (L\*W\*H)

### Specifications:

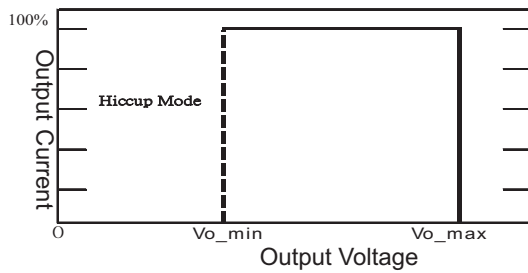


Part No.		LD100GL-12	LD100GL-15	LD100GL-24	LD100GL-30	LD100GL-36	LD100GL-48	LD100GL-57
Output	DC Voltage	12V	15V	24V	30V	36V	48V	57V
	Constant Current Region Note.4	9 ~ 12V	10 ~ 15V	14 ~ 24V	22 ~ 30V	26 ~ 36V	34 ~ 48V	43-57V
	Rated Current	8.3A	6.6A	4.2A	3.3A	2.8A	2.1A	1.75A
	Current Tolerance	+5%, -5%						
	Rated Power	99.6W	99W	100.8W	99W	100.8W	100.8W	99.75W
	Ripple&Noise (Max.)Note.2	150mV	150mV	150mV	150mV	150mV	200mV	240mV
	Efficiency at 230Vac (Typ.)	88%	88%	90%	90%	90%	90.5%	90.5%
	Voltage Tolerance Note.3	-1%~5%	-1%~5%	-1%~5%	-1%~5%	-1%~5%	-1%~5%	-1%~5%
Set up time (Max.)	0.7s / 230Vac, 1.5s / 115Vac, at full load.							
Input	Voltage Range	90 ~ 305Vac / 127 ~ 430Vdc						
	Frequency Range	47 Hz ~ 63 Hz						
	AC Current (Max.)	1.4A at 115Vac / 0.7A at 230Vac						
	Power Factor	>0.98 at 115 Vac / >0.95 at 230Vac at full load. PF≥0.9 at 75% load						
	Inrush Current (Max.)	Cold Start 50A at 230 Vac						
	Leakage Current	<0.75mA / 240 Vac						
Protections	Over Current	95~105% rated current. Type: Auto-recovery after fault condition disappeared.						
	Short Circuit	Type: Hiccup mode & recovers after fault condition disappeared.						
	Over Voltage	13.5~17V	17~21V	28~34V	34~41V	41~49V	53~65V	63-76V
	Over Temperature	Tcase: 95°C±10°C Type: Shutdown mode (re-power on to recover)						
Environment	Operation Temp. Note.5	-30°C~70° (Refer to output load derating curve)						
	Operation Humidity	20% ~ 90% RH non-condensing.						
	Storage Temp.	-40°C ~ 80°C						
	Storage Humidity	10% ~ 90% RH						
	Vibration	10~500 Hz, 2G 10 min./1 cycle, for 60 min. each along X, Y, Z axes.						
Safety & EMC	Safety Standards	UL1875 (except 15V/57V), UL60950 (except 15V/57V), EN61347-1, EN61347-2-13; IP67 Approved.						
	Withstand Voltage	I/P-O/P: 3.75KVAC I/P-FG: 1.88KVAC O/P-FG: 0.5KVAC						
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100Mohms / 500VDC at 25°C						
	EMI Conduction & Radiation	Compliance to EN55015, FCC Part 15						
	Harmonic Current	Compliance to EN61000-3-2 Class C(≅ 75% load), EN61000-3-3						
	EMS Immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 11; EN61547, Light industry level, criteria A						
Others	Dimension (L*W*H)	548*275*141 mm						
	Packing (L*W*H)/Carton	222*68*39 mm						
	Weight	940g						
Note	<p>1. All specifications not specially mentioned are measured at 230Vac and 25°C ambient temperature.</p> <p>2. Ripple &amp; Noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1uf &amp; 47uf parallel capacitor.</p> <p>3. Voltage Tolerance: includes line regulation, load regulation and set-up tolerance.</p> <p>4. Constant current operation region is within 75%~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.</p> <p>5. Please refer to derating curve.</p>							

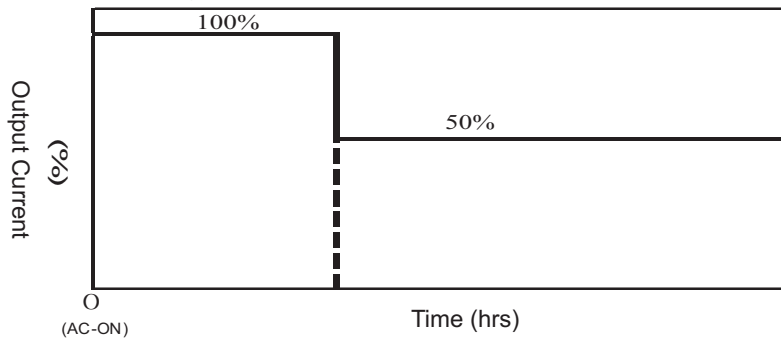
### Derating Curve



### Constant Voltage / Constant Current Curve



### Timer Dimming



### Mechanical Drawing

