



2016-V1.0-0720

Specifications

LED Power Supplies for Outdoor Use

LGEU-200CV Series, 200W

PAIRUI ELECTRONICS

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2016

LED Power Supplies for Outdoor Use

LGEU-200CV SERIES, 200WATT, IP65 RATING

Features

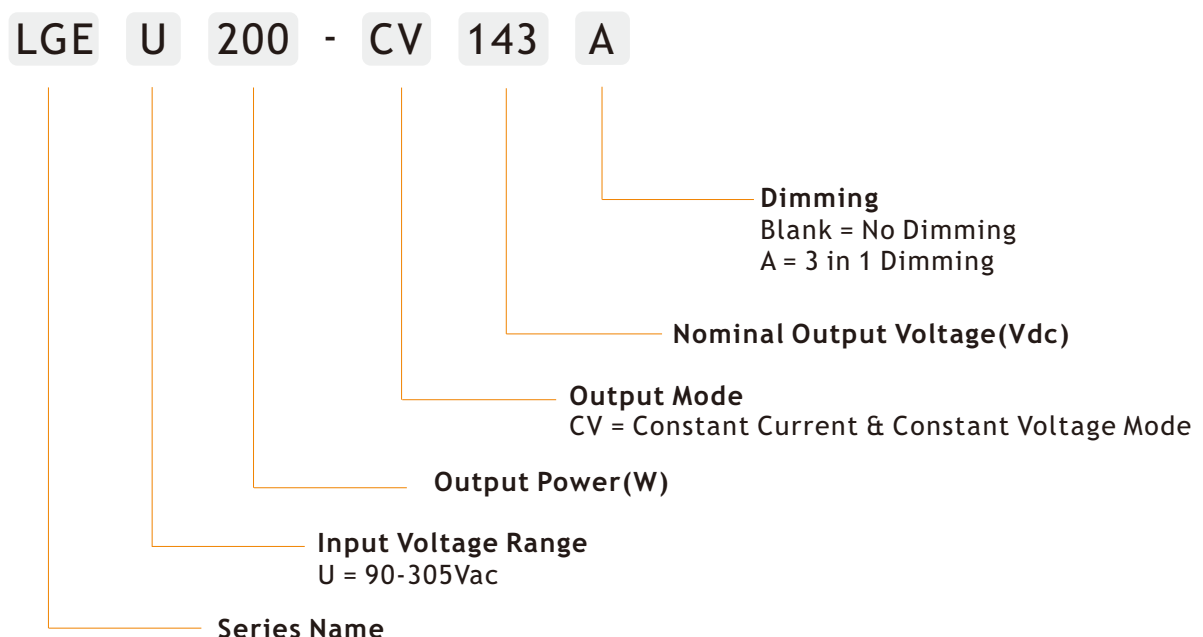
- 5 Year Warranty
- Universal Input Voltage Range: 90~305Vac
- Constant Current & Constant Voltage Mode
- Adjustable Output Current 60%~100%
- High PF up to 0.98
- Rating IP65, Suitable for Outdoor Applications
- All Round Protections: Short Circuit, Over Voltage, Over Current, Over Temperature
- 3 in 1 Dimming(0-10V/Resistor/PWM)



Applications

- ✓ Street Light
- ✓ Tunnel Light
- ✓ Flood Light
- ✓ Refrigeration Equipment
- ✓ Other Light Fixtures for Outdoor Use

Electrical



Electrical

Part Number	Nominal Input Voltage	Nominal Output Voltage & Current	Constant Current Range	Output Voltage Adjustable Range	Output Current Adjustable Range	Ripple	Efficiency	Certificate
LGEU200-CV143	100-277VAC	143V 1400mA	114-143VDC	136-150VDC	800-1400mA	5%	93.5%	CE
LGEU200-CV114	100-277VAC	114V 1800mA	91-114VDC	108-120VDC	1100-1800mA	5%	93.5%	CE
LGEU200-CV95	100-277VAC	95V 2100mA	76-95VDC	90-100VDC	1200-2100mA	5%	93.5%	CE
LGEU200-CV83	100-277VAC	83V 2400mA	67-83VDC	78-88VDC	1400-2400mA	5%	93.5%	CE
LGEU200-CV71	100-277VAC	71V 2800mA	57-71VDC	67-74VDC	1700-2800mA	5%	93.5%	CE
LGEU200-CV63	100-277VAC	63V 3200mA	50-63VDC	57-69VDC	1900-3200mA	5%	93.5%	CE
LGEU200-CV57	100-277VAC	57V 3500mA	46-57VDC	52-62VDC	2100-3500mA	5%	93.5%	CE
LGEU200-CV48	100-277VAC	48V 4200mA	38-48VDC	43-54VDC	2500-4200mA	5%	93%	CE
LGEU200-CV36	100-277VAC	36V 5500mA	29-36VDC	32-40VDC	3300-5500mA	5%	92.5%	CE

NOTE:

1. Other output models are may available on request;
2. Add suffix "A" for 3 in 1 dimming(0-10V/Resistor/PWM).

INPUT

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Input voltage		90		305	Vac
Input frequency		47		63	Hz
Input current	Full load, Vin=110Vac Full load, Vin=220Vac		2.4 1.2		A A
Inrush current	Cold start, Vin=230Vac			65	A
Power factor(PF)	Full load, Vin=110Vac Full load, Vin=220Vac		0.98 0.97		
Leakage current	Vin=230Vac, 50Hz		0.75		mA
Surge voltage	L-N L, N-FG		4 6		KV KV

OUTPUT

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Output voltage adjustable range				±10	%
Output current adjustable range		60		100	%
Output current accuracy			5		%
Line regulation	Vin from 100Vac to 277Vac		1		%
Load regulation	Vout from min. to max.		3		%
Output current overshoot	Turning on			10	%
Turn-on delay time	Cold start, power on		1000		ms
Ripple	Please refer to below measurement method		5%Io		mAp-p
THD	Output load≥50%			20	%

NOTE: The values are measured at 20MHz of bandwidth by using a 12'' twisted pair-wire terminated with 0.1uF & 47uF parallel capacitor under ambient temperature 25°C at rated input voltage and rated load.

Protection

Short circuit	In hiccup mode, it will recover automatically after fault condition is removed
Over voltage	110-150% Vout, the driver shall return to normal operation after the power is turn-on again
Over current	In hiccup mode, it will recover automatically after fault condition is removed
Over temperature	In hiccup mode, it will recover automatically after fault condition is removed

Environment

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Ambient operating temperature	Startup at rated voltage	-35		+70	°C
Operating relative humidity	Non condensing	10		95	%
Storage temperature	Humidity 5 ~ 100% RH	-40		+85	°C
Maximum case temperature	Hot-spot on case			+90	°C
MTBF	Full load, 220Vac input, 25°C ambient temperature	200			Khrs
Waterproof rating	IP65				
Dimension(LxWxH)	226.0 x 68.0 x 38.8mm				
Weight	1050g				

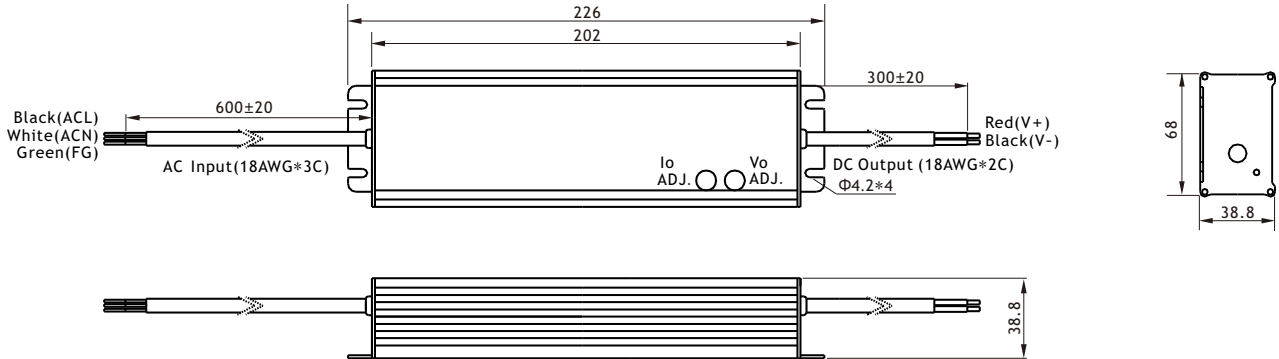
Safety/EMC

Safety	Compliance to UL8750, UL935, UL1012, UL1310 Class 2, EN61347-1, EN61347-2-13
EMC	Compliance to EN55015, FCC Part 15 Class B, EN61000-3-2, EN61000-3-3, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547

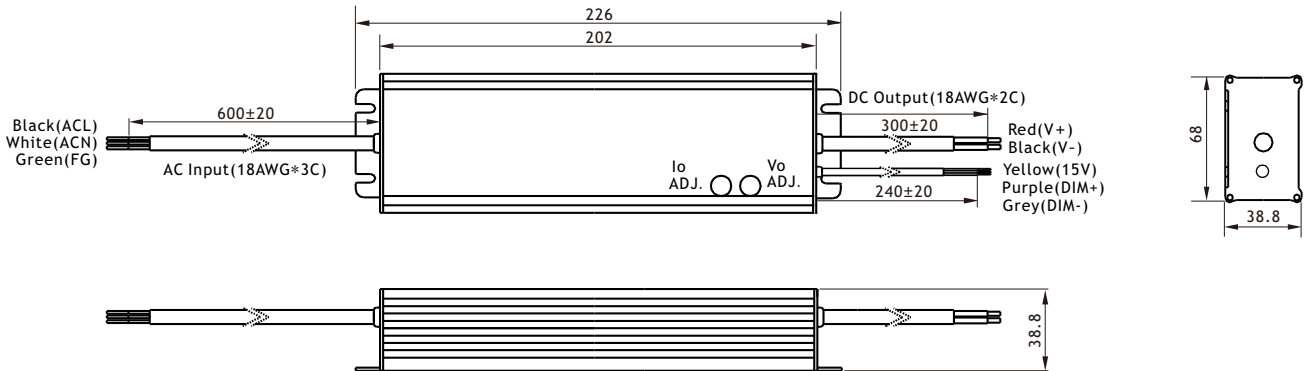
NOTE: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25°C and Vin=100Vac to 277Vac.

Mechanical

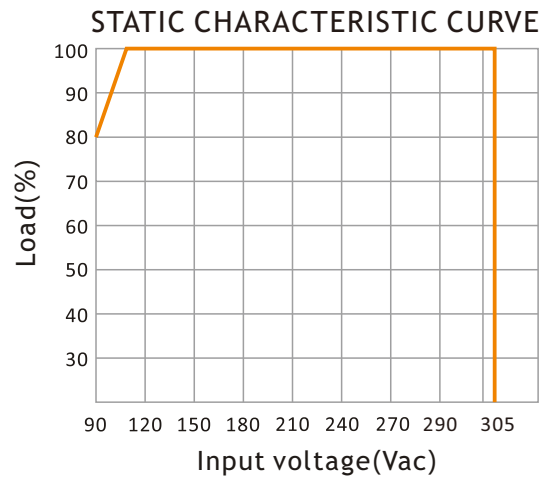
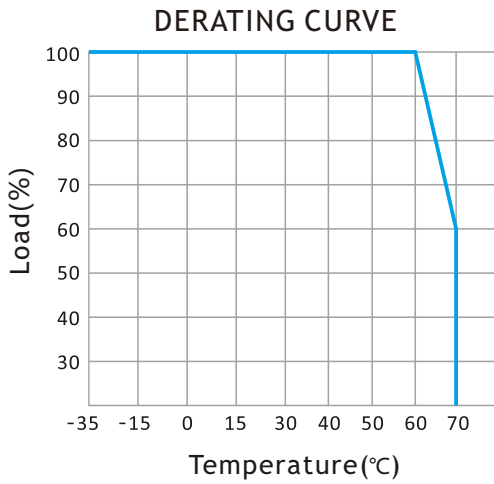
No Dimming



3 in 1 Dimming

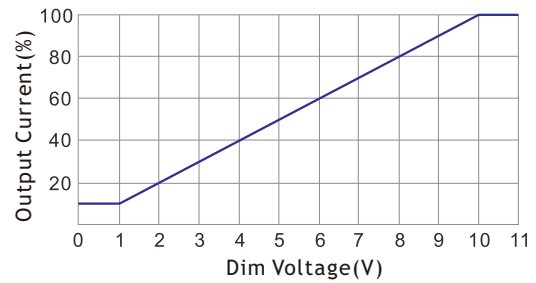
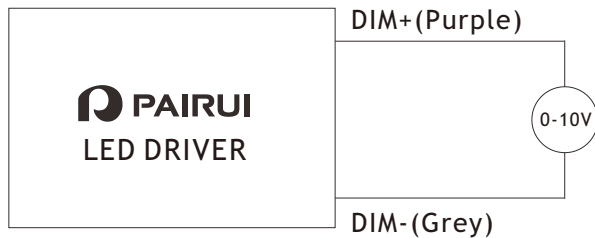


Electrical Curve

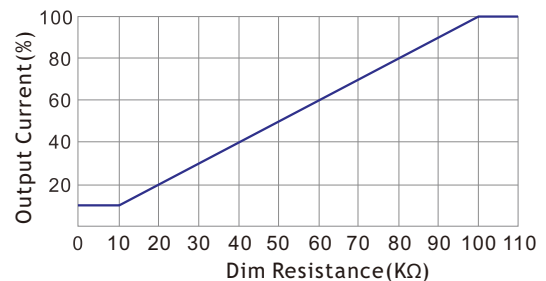
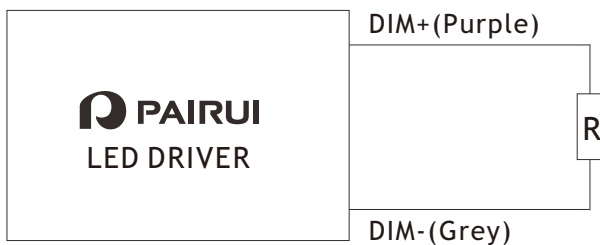


Dimming Function

0-10V Dimming

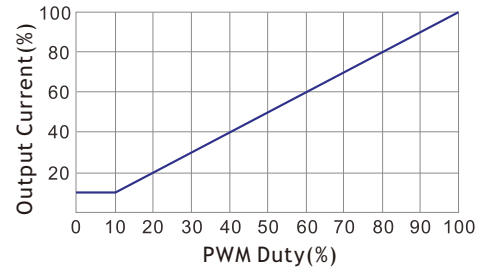
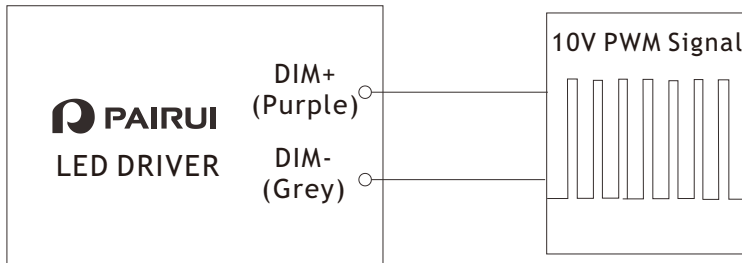


External Resistor Dimming

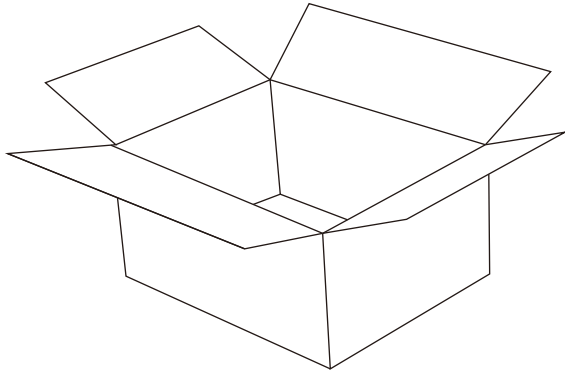


Dimming Function

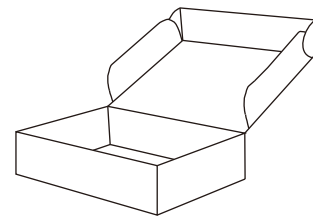
PWM Dimming



Package










Outer Carton
L 620 x W 260 x H 185mm














Inner Box
L 265 x W 102.5 x H 46mm

SERIES	QTY/BOX	QTY/CARTON	NET WEIGHT	GROSS WEIGHT	VOLUME
LGEU-200CV	1 piece	12 boxes	12.6kg/carton	14kg/carton	0.03CBM/carton

Labelling

<p>INPUT</p> <ul style="list-style-type: none"> • ACL (BLK) • ACN (WHT) • ⊕(GRN) 	 <p>LGEU200-CV48 LED POWER SUPPLY</p> <p>INPUT: 100-277VAC, 50/60Hz OUTPUT: 2500-4200mA, 38-48VDC</p> <p>MADE IN CHINA</p>	<p>• ta 70°C • tc 90°C</p> <p>   IP65   </p>	<p>OUTPUT</p> <ul style="list-style-type: none"> • DC+ (RED) • DC- (BLK) <p>   VO ADJ IO ADJ </p>
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<p>INPUT</p> <ul style="list-style-type: none"> • ACL (BLK) • ACN (WHT) • ⊕(GRN) 	 <p>LGEU200-CV48A LED POWER SUPPLY</p> <p>INPUT: 100-277VAC, 50/60Hz OUTPUT: 2500-4200mA, 38-48VDC</p> <p>MADE IN CHINA (3 in 1 Dimming)</p>	<p>• ta 70°C • tc 90°C</p> <p>   IP65   </p>	<p>OUTPUT</p> <ul style="list-style-type: none"> • DC+ (RED) • DC- (BLK) • 15V (YEL) • DIM+ (PPL) • DIM- (GRY) <p>   VO ADJ IO ADJ </p>
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Symbol	Description
	Short-circuit-proof with safety insulation
	Independent Operation
IP65	Type of protection(IP65 for indoor and outdoor use)
	RoHS Mark
	CE Mark