

LED Power Supplies for Outdoor Use

SLGU-40C SERIES, 40WATT, IP67 RATING

Features

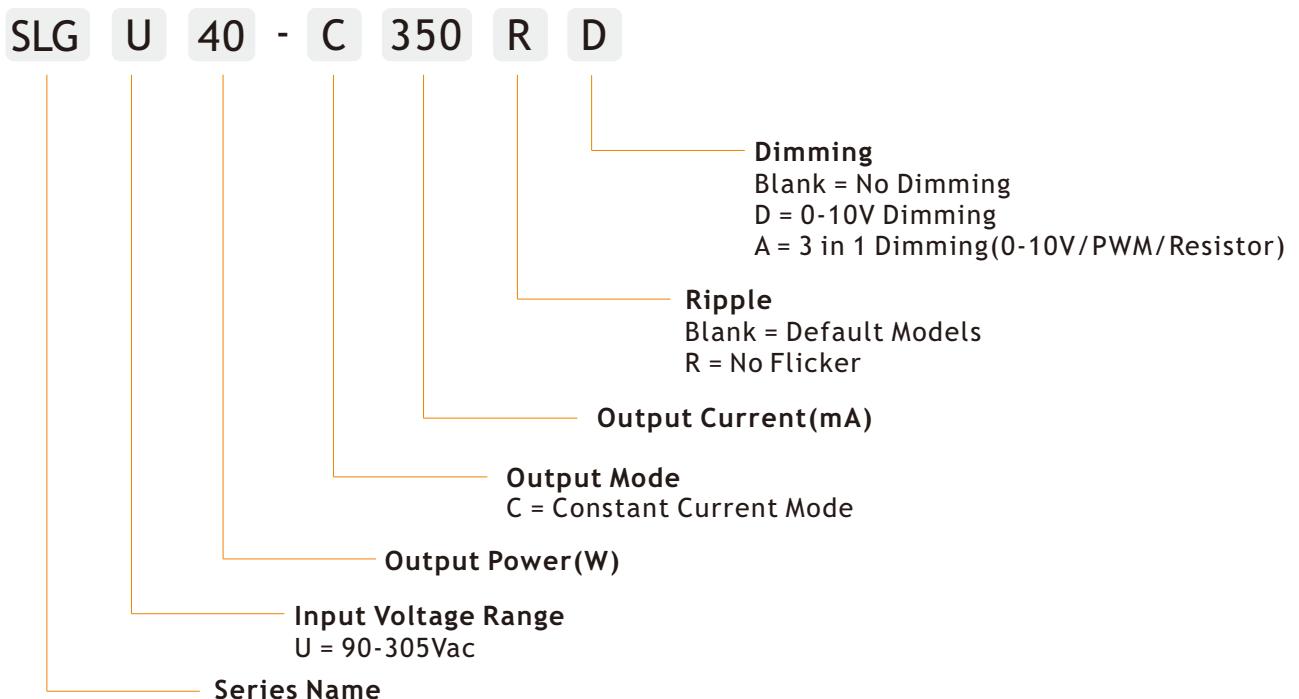
- Universal Input Voltage Range: 90~305Vac
- Constant Current Output Mode
- High PF up to 0.99
- Rating IP67, Suitable for Outdoor Applications
- All Round Protections: Short Circuit, Over Voltage, Over Current, Over Temperature
- Optional Dimming(0-10V, PWM, Resistor)



Applications

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

Electrical



Electrical

Part Number	Nominal Input Range	Output Current Output Voltage	No Load Output Voltage	Ripple	Efficiency	Certificate
SLGU40-C350	100-277Vac	350mA(80-114Vdc)	125Vdc	5%/50%	89%	CE, UL, CCC
SLGU40-C450	100-277Vac	450mA(63-89Vdc)	98Vdc	5%/50%	89%	CE, UL, CCC
SLGU40-C700	100-277Vac	700mA(40-57Vdc)	63Vdc	5%/50%	88%	CE, UL, CCC
SLGU40-C1050	100-277Vac	1050mA(27-38Vdc)	45Vdc	5%/50%	88%	CE, UL, CCC
SLGU40-C1280	100-277Vac	1280mA(22-31Vdc)	38Vdc	5%/50%	87%	CE, UL, CCC
SLGU40-C1400	100-277Vac	1400mA(21-29Vdc)	35Vdc	5%/50%	86%	CE, UL, CCC
SLGU40-C1660	100-277Vac	1660mA(17-24Vdc)	31Vdc	5%/50%	86%	CE, UL, CCC

NOTE:

1. Other output models are may available on request;
2. Add suffix “R” for No Flicker Low Ripple(5%);
2. Add suffix “D” for 0-10V dimming, and “A” for 3 in 1 dimming.

INPUT

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Input voltage		90		305	Vac
Input frequency		47		63	Hz
Input current	Full load, Vin=230Vac		0.21		A
Inrush current	Cold start, Vin=230Vac			35	A
Power factor(PF)	Full load, Vin=110Vac Full load, Vin=220Vac	0.99		0.92	
Leakage current	Vin=230Vac, 50Hz		0.75		mA
Surge voltage	L-N L, N-FG	3		3	KV KV

OUTPUT

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
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		1		s
Ripple (Refer to below note)	Default Model Low Ripple (with suffix "R")		50%Io 5%Io		mAp-p mAp-p
THD	Output load $\geq 50\%$			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 In hiccup mode, it will recover automatically after fault condition is removed
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	300			Khrs
Waterproof rating	IP67				
Dimension(LxWxH)	193.0 x 43.5 x 34.5mm				
Weight	455g				

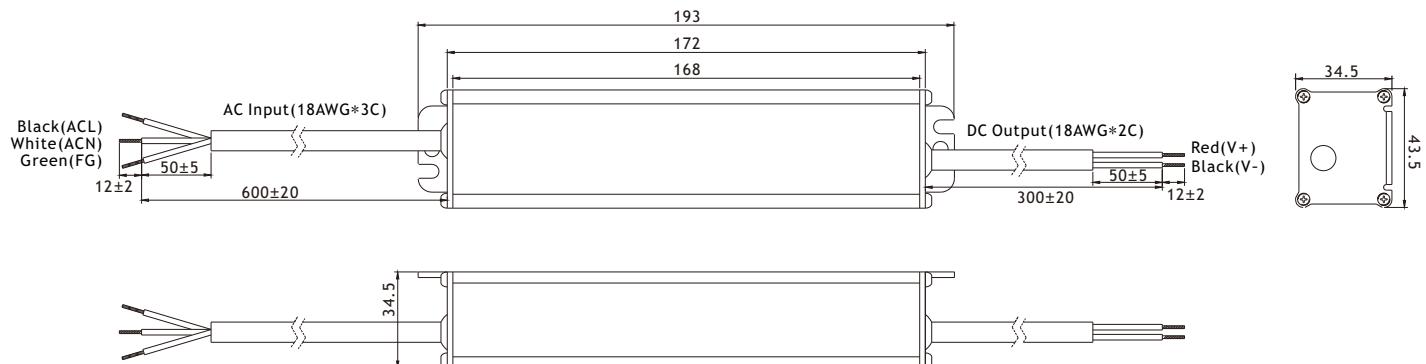
Safety/EMC

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

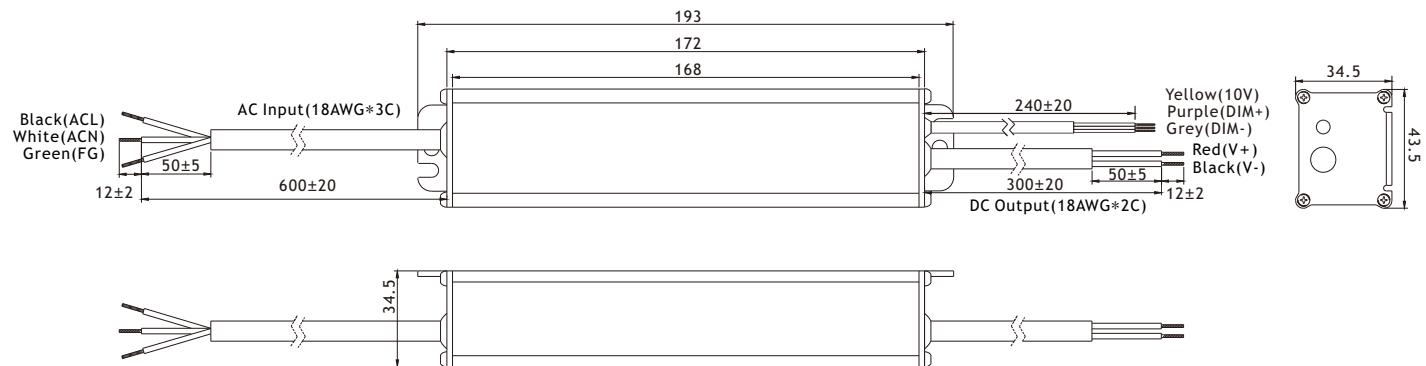
NOTE: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25°C and Vin=100Vac to 277Vac.

Mechanical

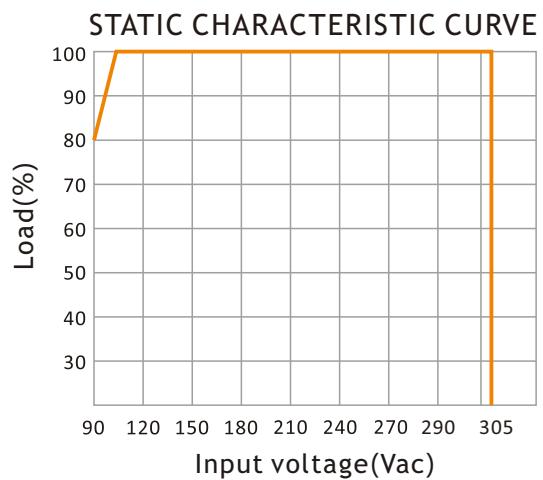
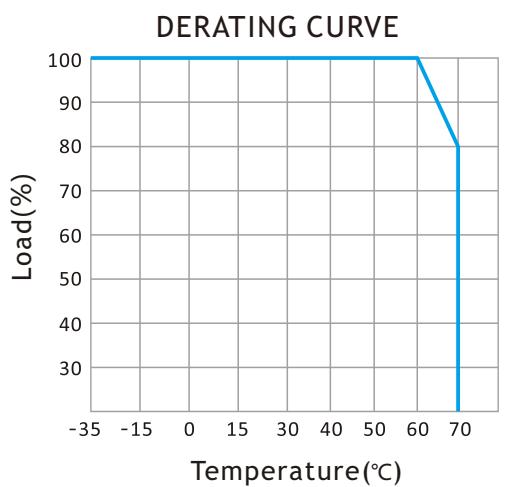
No Dimming



0-10V Dimming / 3 in 1 Dimming

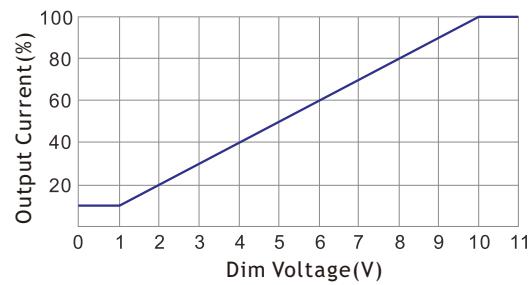
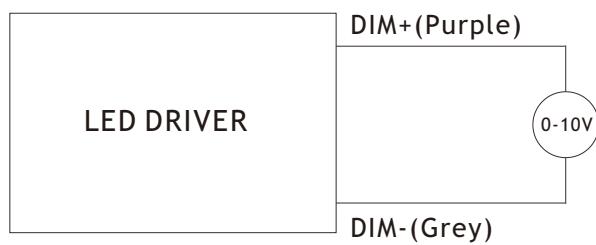


Electrical Curve

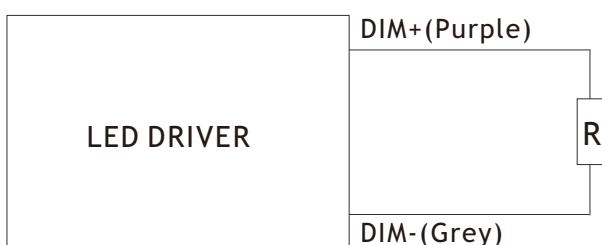


Dimming Function

0-10V Dimming

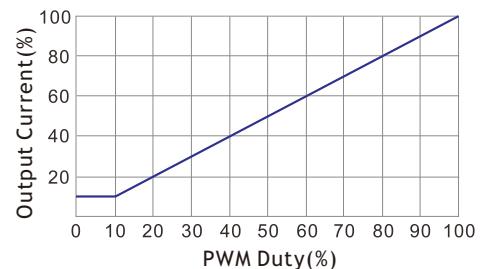
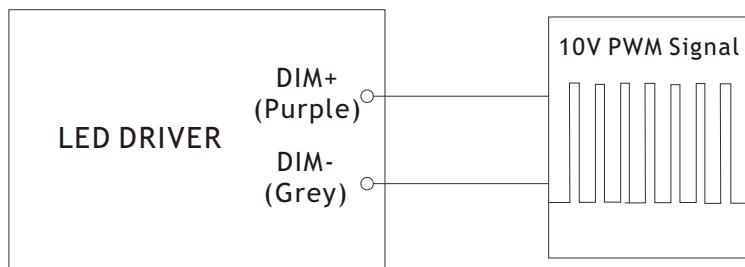


External Resistor Dimming

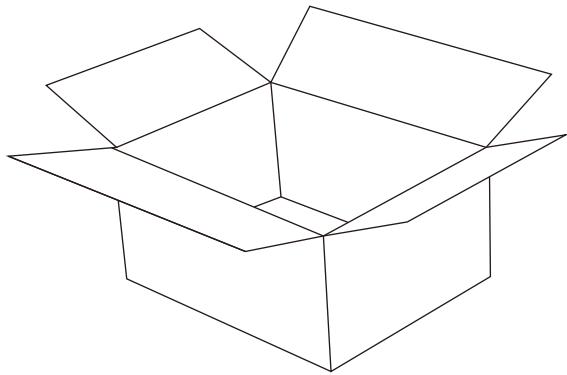


Dimming Function

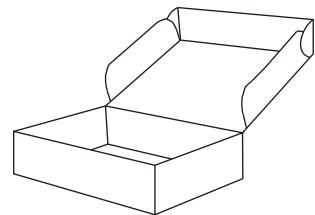
PWM Dimming



Package



Outer Carton
L 620 x W 260 x H 185mm



Inner Box
L 245 x W 102.5 x H 46mm

SERIES	QTY/BOX	QTY/CARTON	NET WEIGHT	GROSS WEIGHT	VOLUME
SLGU-40C	1 piece	18 boxes	8.2kg/carton	10kg/carton	0.03CBM/carton