GLG-300 series

300W Single Output Switching Power Supply with PFC Function

■ **Features:**

- CV + CC mode power supply
- Built-in active PFC function
- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- IP67 design

CE IP67

ELECTRICAL SPECIFICATION

MODEL	GLG-300-12	GLG-300-24
OUTPUT		
RATED VOLTAGE	12V	24V
RATED CURRENT	25A	12.5A
RATED POWER	300W	300W
RIPPLE & NOISE (max.) [3]	360mV$_{P-P}$	720mV$_{P-P}$
TOLERANCE [4]	±3%	
LINE REGULATION	±1%	
LOAD REGULATION	±2%	
SETUP, RISE TIME [5]	1000ms, 80ms / 230VAC; 1000ms, 80ms / 115VAC	
HOLD UP TIME (typ.)	30ms / 115VAC, 60ms / 230VAC	
INPUT		
VOLTAGE RANGE	90 ÷ 264VAC	
FREQUENCY RANGE	47 ÷ 63Hz	
EFFICIENCY (typ.)	87%	89%
AC CURRENT (typ.)	3.1A/115VAC, 1.6A / 230VAC	
POWER FACTOR	PF > 0.95 / 230VAC; PF > 0.98 / 115VAC a !"## #$a%	
INRUSH CURRENT (typ.)	65A / 230VAC	
LEAKAGE CURRENT(max.)	1mA / 240VAC	
PROTECTIONS		
SHORT-CIRCUIT	&' ()* +,--" (m$%), a" $-.)-$/). '.	
OVER CURRENT	0a12)* 95 ÷ 120% .a)% -"..)1	
	&' ()* -$1s a1 -"..)1 #,m, ,12, a" $-.)-$/). '.	
OVER VOLTAGE	14.4 ÷ 18V	29 ÷ 36V
	&' ()* s+" %$31 $" (" /$# a2). 0)-($3). $1 $.)-$/). '.	

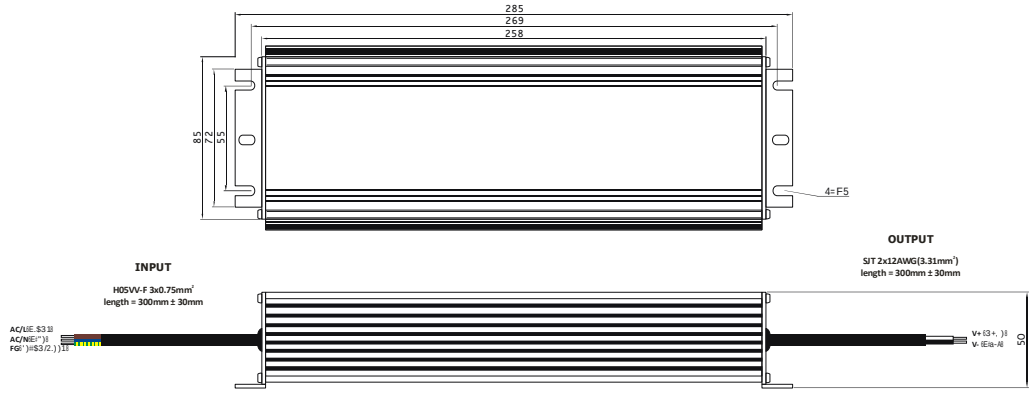
GLG-300 series

300W Single Output Switching Power Supply with PFC Function

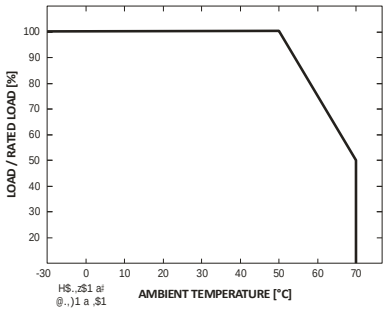
WORKING ENVIRONMENT	
WORKING TEMPERATURE	-305C ÷ 705C 60)!). $ 7).a ,12 C".//)8
WORKING HUMIDITY	20 ÷ 95% 0H 1$1--$1%)1s,12
STORAGE TEMPERATURE AND HUMIDITY	-405C ÷ 805C, 10 ÷ 95% 0H 1$1--$1%)1s,12
TEMPERATURE COEFFICIENT	± 0.03% / 5C 605C ÷ 505C8
VIBRATION	10 ÷ 500Hz, 59, 10m,1 / -'-#), ().,$% !$. 60m,1.)a-+ a#$12 :, ;, < a=)s
SAFETY AND EMC REGULATIONS	
SAFETY STANDARDS	C$m(#,a1-) $>?61347-1, >?61347-2-13, 4P65
WITHSTAND VOLTAGE	4-P/@-P* 3AVAC; 4-P/9?7* 1.5AVAC; @-P/9?7* 0.5AVAC
ISOLATION RESISTANCE	4-P/@-P, 4-P/9?7, @-P/9?7* 100BC/500V7C/255C/70%
EMC EMISSION	C$m(#,a1-) $>?55015
EMC IMMUNITY	C$m(#,a1-) $>?61547; >?55024; >?61000-4-2, -3, -4, -5, -6, -8, -11
HARMONIC CURRENT	C$m(#,a1-) $>?61000-3-3; >?61000-3-2 -#ass C6 D 90% #$a%8
OTHERS	
DIMENSIONS	285 = 96 = 50mm
WEIGHT AND PACKING	2.2A2; 8(-s./E$=; E$= 3),2+ a1% %,m)1s,$1s* 17.5A2; 35 = 24 = 25-m

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Constant current operation region is within announced range. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
4. Tolerance incudes set up tolerance, line regulation and load regulation.
5. Setup and rise time is measured from 0 to 90% rated output voltage.
6. Power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment must be re-qualify to comply with EMC Directives.

MECHANICAL SPECIFICATION



DERATING CURVE



STATIC CHARACTERISTIC