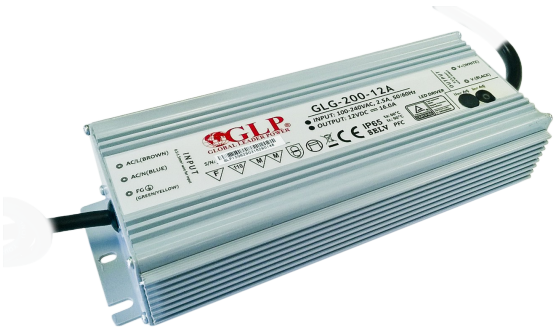
GLG-200 series

200W Single Output Switching Power Supply with PFC Function

GLP® GLOBAL LEADER POWER



■ **Features:**

- CV + CC mode power supply
- Built-in active PFC function, PF > 0.95
- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage / Ovet Temperature
- Cooling by free air convection
- Built-in potentiometers to adjust output voltage and current
- Fully encapsulated with IP65 level [5]

IP65 SELV

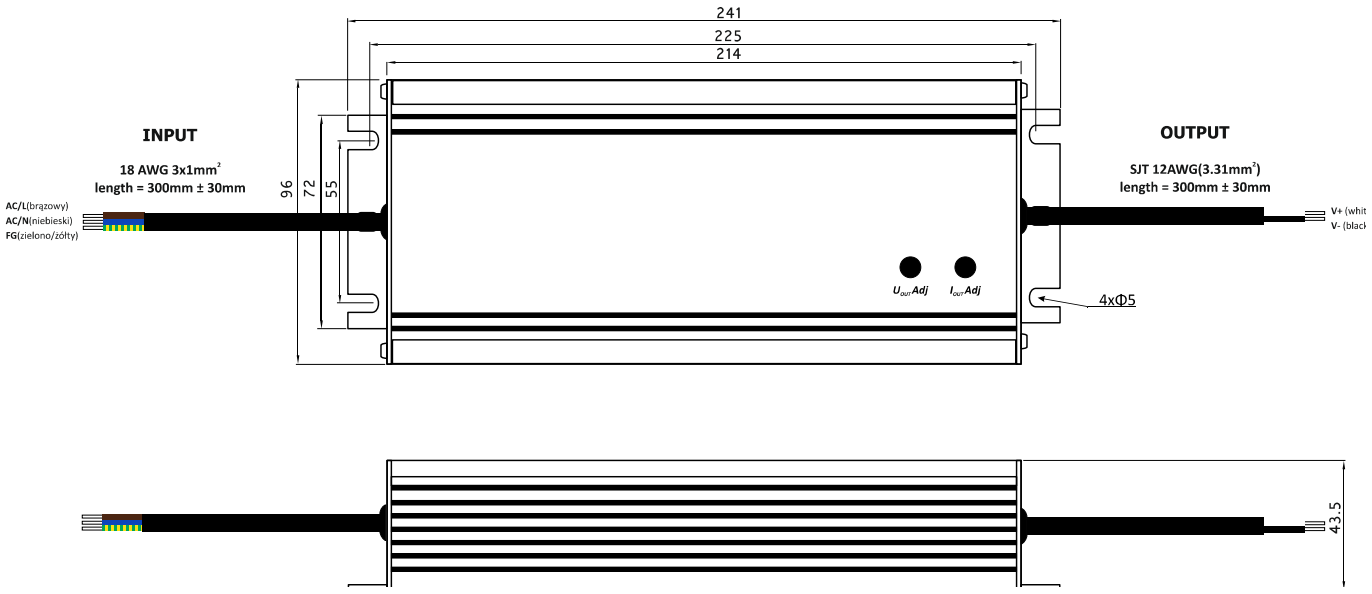
ELECTRICAL SPECIFICATION

MODEL	GLG-200-12A	GLG-200-24A
OUTPUT		
RATED VOLTAGE	12V	24V
RATED CURRENT	16A	8.25A
CURRENT RANGE	10 ÷ 18A	5 ÷ 8.5A
RATED POWER	192W	192W
OUTPUT VOLTAGE ADJUSTMENT RANGE – VR U_{OUT}Adj	9 ÷ 13V	18 ÷ 26V
OUTPUT CURRENT ADJUSTMENT RANGE – VR I_{OUT}Adj	10 ÷ 18A	5 ÷ 8.25A
LINE REGULATION	± 0.5%	
LOAD REGULATION	± 2%	± 1%
TOLERANCE [3]	± 3%	
RIPPLE & NOISE (max.) [2]	220mV$_{P-P}$	450mV$_{P-P}$
SETUP, RISE TIME [4]	1000ms, 80ms / 115VAC; 1000ms, 800ms / 230VAC at full load	
HOLD UP TIME	60ms / 115VAC, 30ms / 230VAC at full load	
INPUT		
VOLTAGE RANGE	90 ÷ 277VAC; 127 ÷ 390VDC	
FREQUENCY RANGE	47 ÷ 63Hz	
EFFICIENCY (typ.)	88%	90%
AC CURRENT (typ.)	2.5A/115VAC, 1.25A / 230VAC	
INRUSH CURRENT (typ.)	65A / 230VAC, 32.5A / 115VAC	
LEAKAGE CURRENT (max.)	<0.75mA / 240VAC	
PROTECTIONS		
OVER CURRENT	Range: 95 ÷ 108% rated current	
	Type: Constant current limiting, recovers automatically after fault condition is removed	
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.	
OVER VOLTAGE	14 ÷ 17V	25 ÷ 29V
	Type: hiccup mode, auto-recovery.	

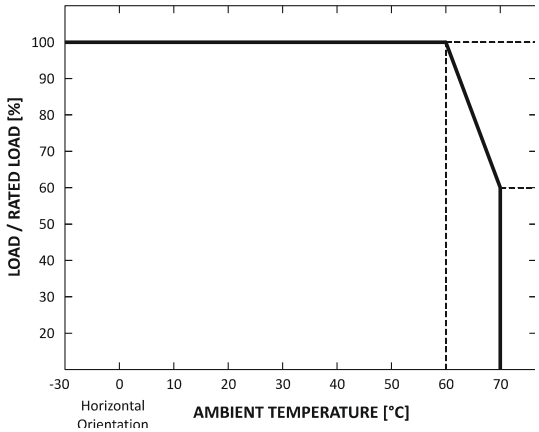
OVER TEMPERATURE	110°C±10°C(detect on RT02)
	Type: shut down output voltage. Recovers automatically after temperature goes down.
WORKING ENVIRONMENT	
WORKING TEMPERATURE	-30°C ÷ 50°C (Refer to Derating Curve)
WORKING HUMIDITY	20 ÷ 95% RH non-condensing
STORAGE TEMPERATURE AND HUMIDITY	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing
TEMPERATURE COEFFICIENT	± 0.03% / °C (0°C ÷ 50°C)
VIBRATION	10 ÷ 500Hz, 5G, 12min / cycle, period for 72min. each along X, Y, Z axes
SAFETY AND EMC REGULATIONS	
SAFETY STANDARDS	Compliance to EN61347-1, EN61347-2-13, IP65
WITHSTAND VOLTAGE	I-P/O-P: 3kVAC
ISOLATION RESISTANCE	I-P/O-P: 100MΩ/500VDC/25°C/70%
EMC EMISSION	Compliance to EN55015
EMC IMMUNITY	Compliance to EN61547
HARMONIC CURRENT	Compliance to EN61000-3-3; EN61000-3-2
OTHERS	
DIMENSIONS	241 x 96 x 43.5mm (L x W x H)
WEIGHT AND PACKING	1.8kg; 10pcs./ctn; ctn weight and dimensions: 19kg; 31.5 x 25.5 x 31cm

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. Suitable for indoor or outdoor use. Please avoid direct exposure to sunlight and immersion in water for over 30 minutes.
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.

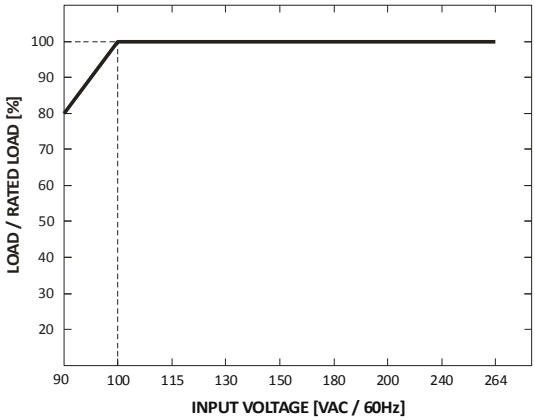
MECHANICAL SPECIFICATION



DERATING CURVE



STATIC CHARACTERISTICS



CONSTANT VOLTAGE + CONSTANT CURRENT MODE OPERATION