IN-200-IP series

200W Constant Voltage Switching Power Supply

■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Over current / Over voltage / Over Temperature
 - Cooling by free air convection
 - Isolation class II
 - Fully encapsulated with IP67 level [5]



ta: 50°C tc: 80°C CONSTANT VOLTAGE SELV F M M © © CEIP67							
® ELECTRICAL SPECIFICATION							
MODEL	IN-200-12-IP			IP-200-24-IP			
OUTPUT							
RATED VOLTAGE	12V			24V			
RATED CURRENT	16A			8.3A			
CURRENT RANGE	0 ÷ 16A			0 ÷ 8.3A			
RATED POWER	192W			199.2W			
LINE REGULATION	± 1%						
LOAD REGULATION	± 2%						
TOLERANCE [3]	± 5%						
RIPPLE & NOISE (max.) [2]	500mV _{P-P}						
SETUP, RISE TIME [4]	1000ms, 50ms / 230VAC at full load						
HOLD UP TIME (typ.)	40ms / 230VAC at full load						
INPUT							
VOLTAGE RANGE	200 ÷ 264VAC						
FREQUENCY RANGE	47 ÷ 63Hz						
EFFICIENCY (typ.)	87% 90%						
AC CURRENT (typ.)	2.6A / 230VAC						
INRUSH CURRENT (typ.)	30A / 230VAC; T _{WIDTH} (czas do półszczytu) = 1800μs						
Max. No. of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16	
	1	1	1	2	1	2	
LEAKAGE CURRENT (max.)	0.25mA / 240VAC						

IN-200-IP series

200W Constant Voltage Switching Power Supply

PROTECTIONS						
	Range: 110% ÷ 150% rated current					
OVER CURRENT	Type: hiccup mode, auto-recovery.	Type: constant current limiting to 60% rated voltage next fold forward mode (current rises, voltage drops) next hiccup mode. Recovers automatically after fault condition is removed.				
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.					
OVER VOLTAGE	Type: hiccup mode, auto-recovery.					
OVED TERMOTORTUDE	140°C±10°C(detect on main control IC)					
OVER TEMPERATURE	Type: shut-off, auto-recovery.					
WORKING ENVIRONMENT						
WORKING TEMPERATURE	-30°C ÷ 70°C (Refer to Derating Curve), ta: 50°C; tc: 80°C					
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 TUV EN 61347-1, TUV EN 61347-2-13, IP67					
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; EN61000-4-2, -3, -4, -5, -6, -8, -11					
HARMONIC CURRENT	Compliance to EN61000-3-3; EN61000-3-2					
OTHERS						
DIMENSIONS	205 x 70 x 45mm (L x W x H)					
WEIGHT AND PACKING	1.2kg; 15pcs./ctn; ctn weight and dimensions: 18.5kg; 45.5 x 29.5 x 19cm					
EAN Code	5"902135"120590	5 902135 120606				

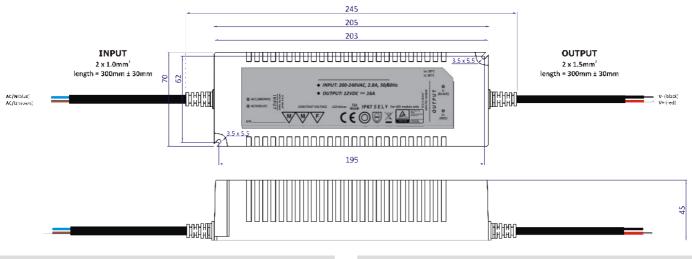
- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
- Tolerance includes set up tolerance, line regulation and load regulation.
 Setup and rise time is measured from 0 to 90% rated output voltage.

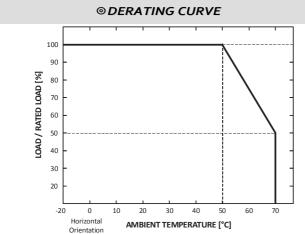
- 5. Suitable for indoor or outdoor use. Please avoid direct exposure to sunlight and immersion in water for over 30 minutes.
 6. Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

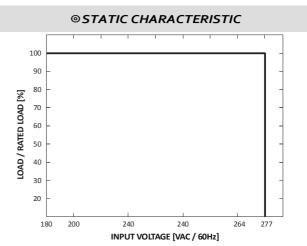
IN-200-IP series

200W Constant Voltage Switching Power Supply

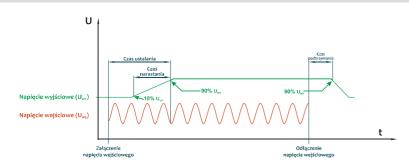
MECHANICAL SPECIFICATION







Setup, Rise and Holdup time



Setup time – time required for the output voltage to reach 90% of its set value measured after AC input voltage is powered on.

Rise time – time required for the output voltage to change from 10% to 90% of its set value.

Holdup time – time required for the output voltage to reach 90% of its set value measured after AC input voltage is powered off.

