

240W LED Switching Power Supply (CV+CC) with output voltage and current level adjustment

■ Features:

- Constant voltage / Constant current mode
 - Universal AC input range (max. 305VAC)
 - Built-in active PFC function
- $\bullet \ \, \text{Protections: Short circuit / Overload \ / Over \ voltage / Over temperature }$
 - Cooling by free air convection
 - High surge protection: 4kV differential mode, 6kV common mode
 - IP65 protection class
 - Suitable for dry, humid and rainy environment



CONSTANT CURRENT SELV IP65 PFC 110 M/M & C E

ELECTRICAL SPECIFICATION			
MODEL	MCHQ240V12-GA	MCHQ240V12-GA MCHQ240V24-GA	
OUTPUT			
Rated Voltage	12V	24V	
Rated Current	18A	10A	
Voltage Adjustment Range – Vadj potentiometer	10.5 ÷ 13.5V	22 ÷ 26V	
Current Adjustment Range – ladj potentiometer	9 ÷ 18A	5 ÷ 10A	
Minimum voltage for Constant Current mode	7V	14.4V	
Rated power	216W	240W	
Line Regulation	± 1%	± 5%	
Load Regulation	± 1%		
Current Accuracy	± 5%		
Voltage ripple (pk-pk)	± 2%		
Current ripple (pk-pk)	± 5%		
Setup, Rise time	200ms, 100ms / 230Vac		

INPUT		
Voltage Range	90 ÷ 305VaC (refer to Derating Curve)	
Frequency Range	47 ÷ 63Hz	
AC current (max.)	2.3A / 115VAC; 1.2A / 230VAC	
Inrush current (max.)	65A / 230VAC(25°C)	
Power Factor (typ.)	PF > 0.98 / 230VAC at full load (refer to PF curve)	
THD (max.)	THD < 5% / 230VAC at full load (refer to THD curve)	
Efficiency (typ.)	92%	93%
Leakage Current (max.)	0.7mA / 230VAC at full load	
No load power consumption (max.)	0.5W / 230VAC	

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Over load	Range: 110 ÷ 160% rated load
	Type: constant current limiting to 60% rated voltage next hiccup mode. Recovers automatically after fault condition is removed.
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.
Over Voltage	Range: 150% rated voltage
	Type: shut down output voltage. Re-power on to recovery.
Over Temperature	110°C
	Type: shut down output voltage. Re-power on to recovery.

WORKING ENVIRONMENT	
Working Temperature	$-40^{\circ}\text{C} \div 70^{\circ}\text{C}$; tc=90°C (refer to derating curve)
Working Humidity	10 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-40°C ÷ 85°C, 10 ÷ 90% RH non-condensing
SAFETY and EMC STANDARDS	
Safety Standards	Zgodność z EN61347-1, EN61347-2-13 , EN 62493

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EMC emission	Zgodność z EN55015
EMC Immunity	Zgodność EN61547
Harmonic Current	Zgodność z EN61000-3-2, EN61000-3-3
Withstand Voltage	WE/WY: 3200VAC / 5mA, 60s
	WE/GND: 1600VAC / 5mA, 60s
	WY/GND: 1000VAC / 5mA, 60s
Insulation Resistance	WE/WY: ≥ 10MΩ / 500VDC
Grounding Resistance	≤ 0.1Ω / 25A, 1min
IP Protection Class	IP65

OTHERS		
MTBF	200 000 hours / 25°C, full load, according to MIL-HDBK-217F	
Lifetime	55 000 hours / 230VAC, full load, tc=75°C	
Dimensions	220.6 x 62.5 x 41.3mm (L x W x H)	
Weight and packing	0.94kg; 10pcs./box; box weight and dimension: 10kg; 26.5 x 19 x 25.5cm	
Primary cable	H05RN-F 105°C 3Gx1.0mm², length = 300 ± 30mm	
Secondary cable	12V: SJTW, 2*14AWG / 2*2.08mm², 105°C, length = 300 ± 30mm	
	24V: SJTW, 2*16AWG / 2*1.31mm², 105°C, length = 300 ± 30mm	

EAN Code





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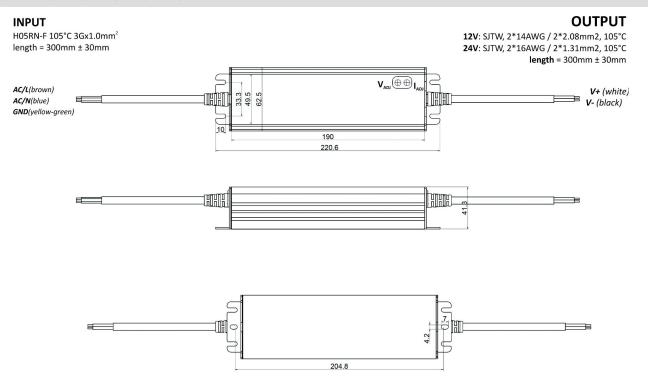
 $^{1. \}textit{ All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 °C of ambient temperature.}\\$

^{2.} 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.

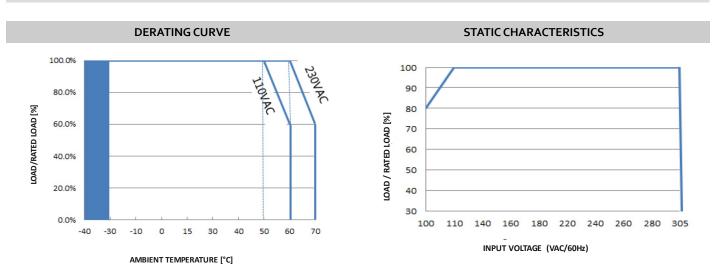


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MECHANICAL SPECIFICATION



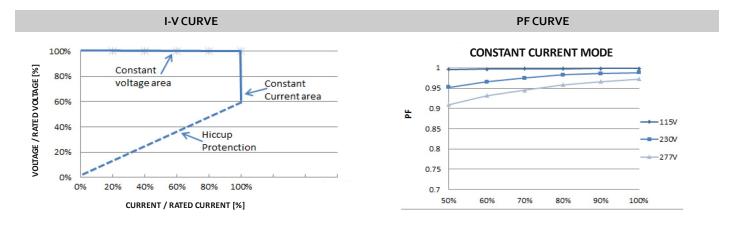
CHARACTERISTICS

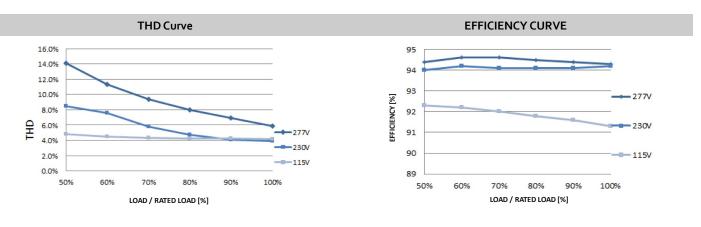


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