

POS-75-C2 series

Enclosed type constant voltage power supply



■ FEATURES :

- Constant voltage and low profile (height=30mm) design
- Universal AC input range: 100÷240VAC
- Protections: Overload/Short-circuit/Over voltage
- Cooling by free air convection



ELECTRICAL SPECIFICATION

OUTPUT	POS-75-5-C2	POS-75-12-C2	POS-75-15-C2	POS-75-24-C2	POS-75-36-C2	POS-75-48-C2
RATED VOLTAGE	5V	12V	15V	24V	36V	48V
VOLTAGE ADJUSTMENT RANGE (VIA POTENTIOMETER)	4.5 ÷ 5.5V	10.8 ÷ 13.2V	13.5 ÷ 16.5V	21.6 ÷ 26.4V	33 ÷ 39V	44 ÷ 52V
RATED CURRENT	12A	6A	5A	3.2A	2.1A	1.6A
RATED POWER	60W	72W	75W	76.8W	75.6W	76.8W
LINE REGULATION	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
LOAD REGULATION	± 2.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%
VOLTAGE TOLERANCE [3]	± 2.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%
RIPPLE & NOISE (MAX.) [2]	100mV _{p-p}	120mV _{p-p}	120mV _{p-p}	150mV _{p-p}	200mV _{p-p}	200mV _{p-p}
SETUP, RISE TIME, AT FULL LOAD [4]	2500ms, 50ms/230VAC at full load					
HOLD UP TIME (TYP.)	20ms / 230VAC at full load					

INPUT

	MIN.	TYP.	MAX.
RATED VOLTAGE	90VAC	200 ÷ 240VAC	264VAC
FREQUENCY RANGE	47 ÷ 63Hz		
EFFICIENCY (MIN.)	≥ 83%	≥ 85%	≥ 86%
AC CURRENT (TYP.)	0.85A / 230VAC		
INRUSH CURRENT (MAX.)	60A / 230VAC cold start		
LEAKAGE CURRENT (MAX.)	< 1mA / 240VAC		

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PROTECTIONS

OVERLOAD	Range: 110 ÷ 160%
	Type: hicup mode, auto-recovery.
SHORT CIRCUIT	Type: hicup mode, auto-recovery.
OVER VOLTAGE	5.75 ÷ 6.5V 13.5 ÷ 16V 16.8 ÷ 19.5V 27 ÷ 32V 40 ÷ 48V 53 ÷ 60V
	Type: Output voltage limiting, auto-recovery.

WORKING ENVIRONMENT

WORKING TEMPERATURE	-30°C ÷ +70°C Refer to derating curve
WORKING HUMIDITY	20 ÷ 90% RH non-condensing
STORAGE TEMPERATURE AND HUMIDITY	-40°C ÷ +85°C, 10 ÷ 95% RH non-condensing

SAFETY AND EMC REGULATIONS

SAFETY STANDARDS	Compliance to EN62368-1
EMC EMISSION	Compliance to EN55032
EMC IMMUNITY	Compliance to EN55035
HARMONIC CURRENT	Compliance to EN61000-3-2; EN61000-3-3
ELECTRIC STRENGTH	IN/OUT: 3000VAC / 7mA, 60s; IN/GND: 1500VAC / 7mA, 60s; OUT/GND: 500VDC / 7mA, 60s
INSULATION RESISTANCE	IN/OUT: ≥50MΩ / 500VDC; IN/GND: ≥50MΩ / 500VDC; OUT/GND: ≥50MΩ / 500VDC

OTHERS

DIMENSIONS (L x W x H)	99 x 97 x 30mm (L x W x H)
WEIGHT AND PACKING	0.25kg/pc.; 60pcs/carton; carton dimensions and weight: 395 x 235 x 290cm; N.W.: 13.5kg; G.W.: 14.5kg
EAN CODE	TBD 5902135154403 TBD 5902135154410 TBD TBD

REMARKS

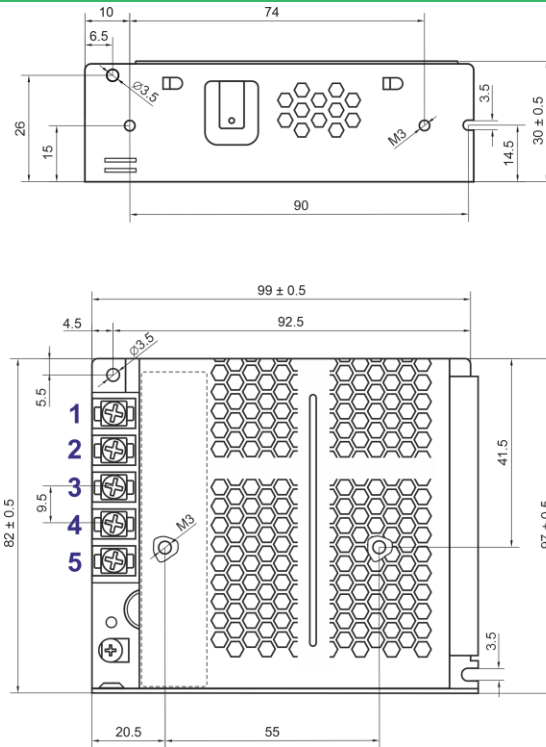
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF | 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation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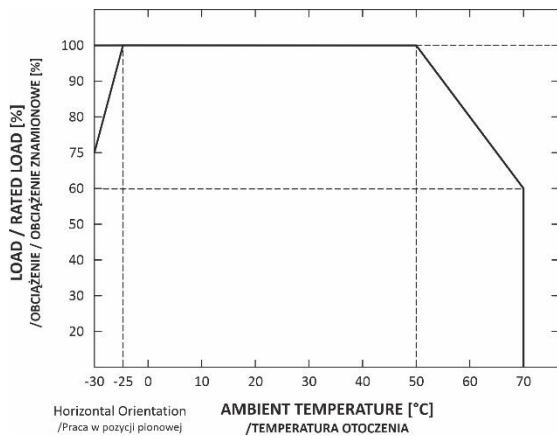
MECHANICAL SPECIFICATION



PIN ASSIGNMENT

No.	FUNCTION	No.	FUNCTION
1	INPUT: AC/L	4	OUTPUT: V-
2	INPUT: AC/N	5	OUTPUT: V+
3	GND	VADJ	U_{OUT} ADJUSTMENT

DERATING CURVE



STATIC CURVE

