POSC48187D-C14 series

48V / 1.87A Desktop type AC/DC adaptor

■ Features:

- *Universal AC input / Full range*
- *ErP step II / CEC level VI compliance*
- *MTBF >100.000h*
- *Protections: Overload / Short circuit / Over Voltage*

CONSTANT VOLTAGE

ELECTRICAL SPECIFICATION

MODEL	POSC 48187D-C14
OUTPUT	
Rated Voltage	48V
Rated Current	1.87A
Current Range	0 ÷ 1.87A
Rated Power	90W
Line Regulation	± 5%
Load Regulation	± 5%
Tolerance	± 8%
Ripple & Noise (max.)	$300mV_{P-P}$
Rise Time	Max 100ms / 230VAC at full load
Hold up Time (typ.)	3ms / 230VAC at full load
INPUT	
Voltage Range	90 ÷ 264VAC
Frequency Range	47 ÷ 63Hz
Efiiciency (typ.)	88.00% - Input115/230Vac/Average (25%+50%+75%+100%) /4
AC Current (typ.)	1.8A / 230VAC
No load Power Consumption (max.)	<0.21W
PROTECTIONS	
Over Current Protection	2.05A-3.40A
	Auto-recovery.
Short Circuit	Type: hiccup mode, auto-recovery.
Over Voltage	Type: auto-recovery.

sales@prom-elec.com / ООО ПРОМЭЛЕКТРОНИКА

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WORKING ENVIRONMENT

Working Temperature	-5°C ÷ 40°C
Working Humidity	5 ÷ 95% RH non-condensing
Storage Temperature and Humidity	-40°C ÷ 85°C, 5 ÷ 90% RH non-condensing

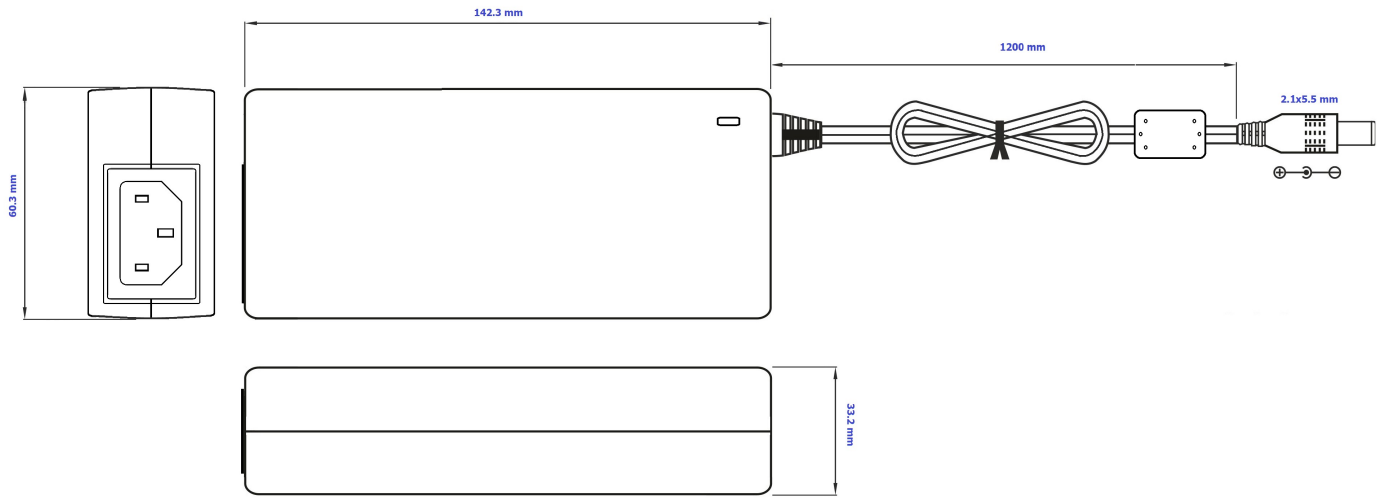
SAFETY and EMC REGULATIONS

Safety Standards	Compliance to EN 62368
Withstand Voltage	IN/OUT: 1.5kVAC
Isolation Resistance	IN/OUT: 100MΩ/500VDC/25°C/70%
EMC Emission	Compliance to EN55032
EMC Immunity	Compliance to EN61000-4-2, -3, -4, -5
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

DC wire and plug	Wire: 22AWG*2C, length = 1200mm	Plug: 2.1/5.5, positive inside
Net Weight / Dimensions	451g / 142.3 x 60.3 x 33.2mm (L x W x H)	

MECHANICAL SPECIFICATION



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.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.