PSO-35 series

Ripple & Noise (max.) [2]

Setup, Rise Time [4]

Hold up Time (typ.)

 $300mV_{P-P}$

35W Switching Power Supply with UPS function



■ Features:

- Universal AC input range / Full range
- Output Protections: Short circuit / Overload
 - Battery Protections: Battery cut-off
- Built-in battery charger with charging current control circuit
 - LED alarm signals: AC OK, DC OK, Battery charging
- Cold start function: power ON without AC mains through ST switch
 - Cooling by free air convection



©ELECTRICAL SPECIFICATION MODEL PSO-35-13 PSO-35-27 **OUTPUT** 13.8V 27.6V Rated Voltage 21.3 ÷ 29.8V **Voltage Adjustment Range** 11.3 ÷ 14.9V **Rated Current** 1.2A 2.5A **Current Range** $0 \div 2.5A$ 0 ÷ 1.2A **Rated Power** 35W 35W **Line Regulation** ± 0.5% ± 0.5% **Load Regulation** ± 1% ± 1% Voltage Tolerance [3] ± 3% ± 3%

BATTERY		
Rated Voltage	12V	24V
Charging parameters	13.4V ± 0.2V / 0.5A ± 0.1A	27.4V ± 0.2V / 0.5A ± 0.1A

800ms, 50ms / 230VAC; 1600ms, 50ms/115VAC at full load

80ms / 230VAC; 16ms/115VAC at full load

1000mV_{P-P}

INPUT			
Voltage Range	80 ÷ 264VAC		
Frequency Range	47 ÷ 63Hz		
Power Factor (typ.)	PF > 0.6 / 230VAC at full load		
Efficiency (typ.)	81%	83%	
AC current (typ.)	0.9A/115VAC; 0.45A / 230VAC		
Inrush current (max.)	45A / 230VAC(25°C)		

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PSO-35 series

35W Switching Power Supply with UPS function



OUTPUT PROTECTIONS

Over Current Range: 110 ÷ 150%

Type: hiccup mode, auto-recovery

Short Circuit Type: hiccup mode, auto-recovery

BATTERY PROTECTIONS

Battery Cut-off Range: $9.5 \div 11V$ Range: $19 \div 22V$

Type: shut off, re-power on to recovery

WORKING ENVIRONMENT

Working Temperature	-10°C \div +50°C (Refer to derating Curve)
Working Humidity	20 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-20°C ÷ +85°C, 10 ÷ 95% RH non-condensing

SAFETY AND EMC REGULATIONS

Safety Standards	Compliance to EN60950-1
Withstand Voltage	IN/OUT: 1.5kVAC; IN/FG: 1.5kVAC; OUT/FG: 0.5kVAC
EMC Emission	Compliance to EN55032
EMC Immunity	Compliance to EN55024
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

Dimensions	110 x 78 x 36mm (L x W x H)
Weight	0.4kg

EAN Code



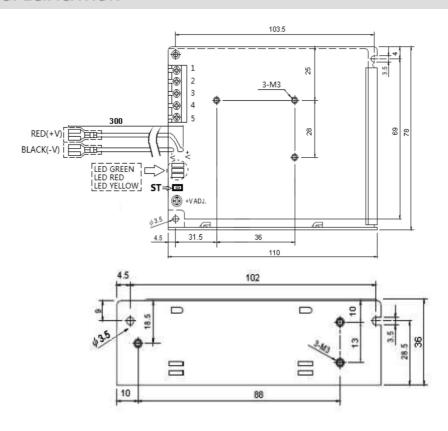


- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
- 3. Tolerance includes set up tolerance, line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

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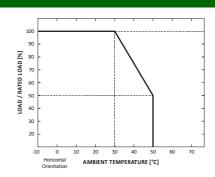


OMECHANICAL SPECIFICATION



PIN ASSIGNMENT INPUT and OUTPUT BATTERY (Screw terminal block **Alarm Signals** (Faston 6.35x0.8mm) 9.5mm pitch) **Assignment Assignment Assignment** No. No. No. LED GREEN 1 Input: AC/N RED (+V) Battery positive - DC Power On - DC power Off 2 Input: AC/L BLACK (-V) - AC Input ON - AC Input off Battery negative **LED RED** 3 Input: FG **LED YELLOW** Battery is charging - Battery is not charging 4 Output: U_{OUT} -ST Short Push when AC input off to power on DC output 5 Output: U_{OUT}+

DERATING CURVE



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