

Switching Power Supply 250W

S-250-24

Output 24Vdc 10.5A

Fully enclosed switching power supply for industrial applications around the world regardless of voltage and frequency of the power line.

Highly reliable power output with short circuit, overload, overvoltage and overheat protection. Output capacitors are rated at 105°C. Features factory installed EMI filter.

Electrical Specifications:

DC output voltage	24Vdc.
Output voltage tolerance	1%
Output adj. voltage range	±10%.
Output Voltage Adjustment Range	21.6V - 26.4V
Rated output current	10.5A.
Output current range	0-10.5A.
Ripple and Noise	180mVp-p.
Line Regulation	±0.5%.
Load Regulation	±0.5%.
Rated Output Power	250W
Efficiency	84%
AC Input Voltage Range	88-132Vac 176-264Vac
AC Line Frequency	47-63Hz
AC Current (typical)	5.0A/115V 2.5A/230V
AC Inrush Current	18A/115V 36A/230V
Leakage Current	<3.5mA/240Vac
Overload Protection	105-145%
Overvoltage Protection	115-150%
Overheating Protection	automatic fan
Setup, rise, hold-up time	1,20,10ms
Isolation Resistance	500Vdc/100MΩ
Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
Working Temp	-10°C - +60°C
Working Humidity	20% - 90% RH
Overall Dimension	215x115x50mm
Weight	1.10kg
Safety Standard	UL1950, TUVEN60950
EMC Standard	EN55022 CLASSB EN61000-4, 2,3,4 EN60555-2,3



Other Features:

- AC Input Range selectable by switch.
- Forced air cooling by DC fan.
- Built-in cooling fan on-off control:
Fan OFF ≤ 55 to 60 °C
Fan ON ≥ 80 to 85 °C.
- Overload Protection type:
Output cutout.
Recovers automatically after fault condition removed
- Overvoltage Protection type:
Pulsing Hiccup mode.
Recovers automatically after fault condition removed
- 100% Full Load Burn-in Test.

Installation Issues:

- Always connect ground to the Ground terminal. This way the case will be safe to touch.
- Provide adequate air circulation for cooling.
- There are two or more terminals labeled "+" and "-" provided for convenience. All terminals labeled with the same symbol are internally connected.

Manufactured by:

YOEQING SUNWOR ELECTRIC CO., LTD.

POWER CORD INNER CONDUCTOR COLORS

Standard power cords in the USA:

BLACK = HOT

WHITE = NEUTRAL

GREEN = GROUND

International power cords:

BROWN = HOT

BLUE = NEUTRAL

GREEN/YELLOW STRIPE = GROUND

POWER SUPPLY

NOTICE: SOME MODELS FEATURE AC SELECTION SWITCH LOCATED ON LONGER SIDE OF THE CASE. PLEASE MOVE THE SWITCH TO CORRECT POSITION MATCHING YOUR AC LINE.

FOR 100 TO 130VAC LINE MOVE THE SWITCH TO **115V**.

FOR 200 TO 240VAC LINE MOVE THE SWITCH TO **230V**.

AC side connection:

L – Live (Hot) - BLACK conductor (USA) or BROWN conductor (International)

N – Neutral - WHITE conductor (USA) or BLUE conductor (International)

GND (or FG or Earth or GND symbol) – Ground - GREEN conductor (USA) or GREEN/YELLOW conductor (International)

DC side connection:

+V – positive DC voltage

- V (or COM) – negative DC voltage or COMMON (0V) for asymmetrical or single polarity output