

AC/DC 480W ENCLOSED SMPS

NHP-ES-480-1-X-X

The ES-480 series is one of NHP's enclosed AC-DC switching power supply. It functions from a wide AC input range and at the same time accepts DC input voltage. Its main features are its cost-effective, low no load power consumption, high efficiency and high reliability. These power supply offer excellent EMC performance and meet international standards and are widely used in areas of industrial automation, street light control, electricity, security, telecommunications, smart home, etc.



- Input 170V to 270V AC operating range
- Operating Temperature -20 to 85 Deg C
- Low Standby Power Consumption and High Efficiency
- Input over and under voltage protections
- LED indicator for power on
- Output short circuit, over-load, over-voltage protection
- Leading supplier for major OE manufactures for 25 years

Ordering Code:

NHP-ES-480-24-WMH



1 2 3 4 5

1	COMPANY'S NAME
2	ENCLOSED SMPS
3	RATED OUTPUT POWER
4	RATED OUTPUT VOLTAGE
5	WMH- WALL MOUNTED HORIZONTAL

SELECTION GUIDE:

Model Number	Output Power (Watt)	Output Voltage and Output Current (V/I)	Efficiency
NHP-ES-480-1-15-X	420W	12V/35A	>85%
NHP-ES-480-1-24-X	480W	24V/20A	
NHP-ES-480-1-36-X	540W	36V/15A	
NHP-ES-480-1-48-X	480W	48V/10A	

INPUT SPECIFICATIONS:

Input Voltage	170 to 270V AC
Input Voltage Frequency	47Hz to 63Hz
Input Current	4A Typical at 230V AC
Input Inrush Current	Limited by NTC Thermistor to 60A
Leakage current	<3.5 mA at 230V AC

OUTPUT SPECIFICATIONS:

Output voltage Accuracy	At full load range $\pm 1\%$
Line Regulation	<1%
Load Regulation	<1%
Ripple and noise	150 mv p-p
Temperature Coefficient	$\pm 0.03\%/^{\circ}\text{C}$
Hold-up Time 230V AC	20ms

GENERAL SPECIFICATIONS:

Operating Temperature	-20 to 85 Deg C
Storage Temperature	-20 to 85 Deg C
Operating Humidity	20 to 95%RH
Storage Humidity	10 to 95%RH
Vibration	10-500 Hz 2G 10 min/cycle 60 mins each along XYZ axis
Indication	Mains On



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PROTECTIONS:

Input under voltage	Cutoff level 140V AC Turn on voltage 160V AC
Input over voltage	310V AC units shuts off if voltage goes above this value and automatic restart when input is less than 275V AC
Output short circuit and overload	Continuously Protected

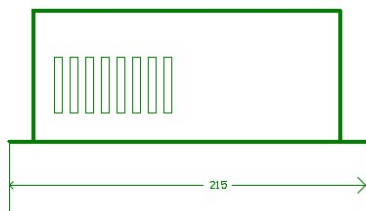
MECHANICAL SPECIFICATIONS:

Case Material	Sheet Metal Enclosure
Dimensions: L*B*H	215*65*125mm
Weight	1000g
Mounting	Horizontal Wall Mounting
Cooling Method	Forced Air Cooled

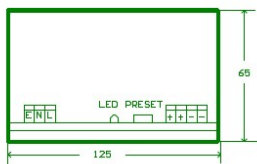


MECHANICAL DRAWING:

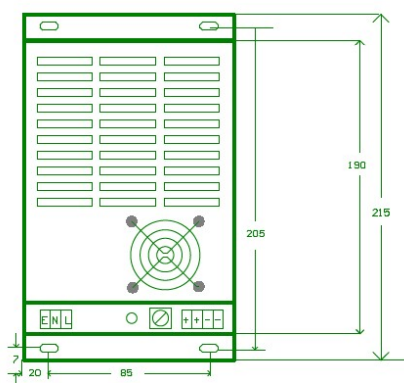
SIDE VIEW



FRONT VIEW



TOP VIEW



NOTE :

1	DRWG NOT TO SCALE
2	ALL DIMENSIONS IN mm
3	USE 2.5 SQ MM SINGLE STRAND WIRE FOR O/P
4	USE 1 SQ MM SINGLE STRAND WIRE FOR I/P
5	FUSE IS FOR PROTECTION AGAINST FIRE. REPLACING THE FUSE SHALL NOT START THE UNIT
6	ENCLOSURE : POWDER COATED SHEET METAL ENCLOSURE COLOUR: STEEL GREY BOTTOM : 1.0MM THICK COVER : 0.9MM THICK

NHP POWER SYSTEMS

MODEL NO : NHP-ES-480-X-X	PART DESCRIPTION: SMPS 480 WATTS
DRG BY : SOHAIL	VERSION-1
DRWG DATE 17-02-22	DRWG NO 2420F

