

HXE-350 SERIES



FEATURES

- · AC Input range selectable by switch
- High operating temperature up to 70 °C
- Protection: Short Circuit/Overload/ Over Voltage/ Over Temperature
- Air cooling by build-in DC fan
- Higher efficiency
- 4 years warranty





HXE350 series are designed with lower pole housing ,adopting the input of 115VAC or 230VAC (selectable by switch). In addition to the high efficiency, Delivering an extremely low no load power consumption. The design of metallic mesh case enhances the heat dissipation. The good performance can be used for industrial automation & control systems, varied equipments etc.

SELECTION GUIDE

Product model	DC Voltage	Rated Current	Rated Power	Max. Capacitive Load (μF)
HXE-350-12	12V	29A	348W	20000uF
HXE-350-15	15V	23.3A	348W	10000uF
HXE-350-24	24V	14.6A	350.4W	8000uF
HXE-350-36	36V	9.7A	349.2W	6000uF
HXE-350-48	48V	7.3A	350.4W	4000uF
HXE-350-60	60V	5.83A	350W	1000uF





INPUT CHARACTERISTICS

Parameter	Units	Model	
VOLTAGE BANGE	90~132VAC/180 ~264VAC by switch		
VOLTAGE RANGE	240~370VDC (Switch on 230VAC)		
FREQUENCY RANGE	47/63Hz		
	85%	HXE-350-12	
	86%	HXE-350-15	
	88.0%	HXE-350-24	
AVERAGE EFFICIENCY(115/230VAC)	88.5%	HXE-350-36	
	89%	HXE-350-48	
	88%	HXE-350-60	
AC CURRENT(Typ.)	6.8A/115VAC		
AO OOMENT(Typ.)	3.4A/230VAC		
INRUSH CURRENT(Typ.)	60A/230VAC		
LEAKAGE CURRENT	<2mA/240VAC		

OUTPUT CHARACTERISTICS

Parameter	Units	Model
	150mVp-p	HXE-350-12
	150mVp-p	HXE-350-15
RIPPLE & NOSE(max.)	150mVp-p	HXE-350-24
THIT LE GITTO CHINGX.	200mVp-p	HXE-350-36
	200mVp-p	HXE-350-48
	240mVp-p	HXE-350-60





Switch Mode Power Supply

Parameter	Units	Model
	±1.5%	HXE-350-12
	±1.0%	HXE-350-15
VOLTAGE TOLERANCE	±1.0%	HXE-350-24
	±1.0%	HXE-350-36
	±1.0%	HXE-350-48
	±1.0%	HXE-350-60
LINE REGULATION	±0.5%	
	±1.0%	HXE-350-12
	±0.5%	HXE-350-15
LOAD REGULATION	±0.5%	HXE-350-24
LOAD REGULATION	±0.5%	HXE-350-36
	±0.5%	HXE-350-48
	±0.5%	HXE-350-60
SETUP TIME	1600ms/230VAC at full load	
52.61 <u>2</u>	1600ms/115VAC at full load	
DICE TIME	50ms/230VAC at full load	
RISE TIME	50ms/115VAC at full load	
LIOLD LID TIME (T)	16ms/230VAC at full load	
HOLD UP TIME (Typ.)	12ms/115VAC at full load	





PROTECTION

Parameter	Units	
SHORT CIRCUIT	Protection type: Hiccup mode, recovers automatically after fault condition is removed	
OVERLOAD	110%-140% Rated Output Power	
OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed	
	12V:13.8~16.2V	
	15V:18.75~21.75V	
OVED VOLTAGE	24V:28.8~33.6V	
OVER VOLTAGE	36V:41.4~48.6V	
	48V:55.2~64.8V	
	60V:69~78V	
	Protection type: Hiccup mode, recovers automatically after fault condition is removed	
OVER TEMPERATURE	Protection type: Hiccup mode, recovers automatically after fault condition is removed	

ENVIRONMENT

Parameter	Units
WORKING TEMP	-30°C to +70 °C (Refer to "Derating Curve")
WORKING HUMIDITY	20~90% RH Non-Condensing
STORAGE TEMP, HUMIDITY	~40°C~+85°C, 10~95% RH non-condensing
TEMP COEFFICIENT	±0.03%/°C(0~50°C)
SAFETY PROTECTION	CLASSI
VIBRATION	10~500Hz, 5G 10min./1 cycle,60 min. each along X,Y,Z axes
OVER VOLTAGE CATEGORY	Class III; According to BS EN/EN61558, BS EN/EN50178,
	altitude up to 2000 meters
MTBF	600K hrs min. MIL-HDBK-217F(25°C)





SAFETY & EMC

Parameter	Units
SAFETY STANDARDS	BSEN/EN62368-1
WITHSTAND VOLTAGE	I/P-O/P:4KVAC/min, I/P-PE:2KVAC/min, O/P-FG:1.25KVAC/min
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC/25°C/70%RH
EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class A
EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,perf. CriteriaA BSEN/EN61000-4-11,perf.CriteriaB

NOTE

- 1. All parameters NOT specially mentioned are measured at 115/230VAC 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 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Line regulation is measured from low line to highline at rated load.
- 5. Load regulation is measured from 0% to 100% rated load.
- 6. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.
- 7. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft).
- 8. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be reconfirmed that it still meets EMC. directives.
- 9. The out case needs to be connected to the earth, of system when the terminal equipment in operating

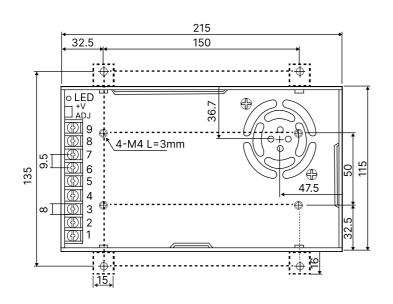
DIMENSION, WEIGHT & PACKING

Parameter	Units
SIZE:	215*115*30mm (LxWxH)
WEIGHT:	740g
CARTON SIZE:	38×20×25.5CM
5/11(151(5)ZZ	14.96×7.87×10.04in
MASTER CARTON QUANTITIES:	15pcs/Carton





DIMENSIONS AND INSTALLATION

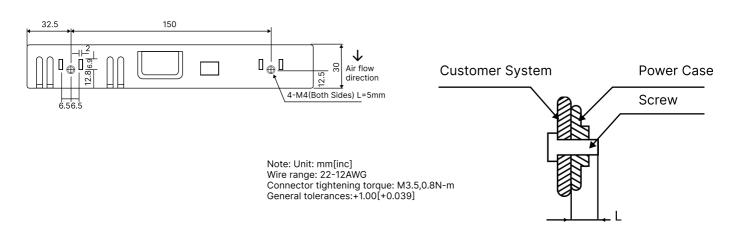


Input

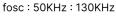
Output

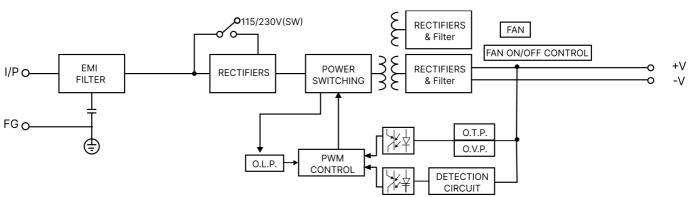
No.	Description	
4,5,6	DC OUTPUT-V	
7,8,9	DC OUTPUT+V	

Switch	AC Input	DC Input
115V	90-132VAC	
2300	180-264VAC	240-373VDC



BLOCK DIAGRAM

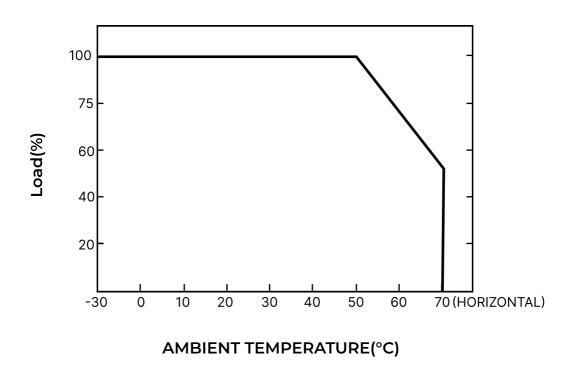








DERATING CURVE



OUTPUT DERATING VS INPUT VOLTAGE CURVES

