

HXE-75 SERIES

FEATURES



- Universal AC Input / Full Range
- High Operating Temperature up to 70°C
- Protection: Short Circuit/Overload/Over Voltage
- Cooling by free air convection
- Higher Efficiency / Low Power Dissipation
- 4 Years Warranty



HXE-75 series are designed with lower pole housing and for wide range AC input from 90VAC to 264VAC. 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-75-05	5V	14A	70W	1000uF
HXE-75-12	12V	6A	72W	6000uF
HXE-75-15	15V	5A	75W	5000uF
HXE-75-24	24V	3.2A	76.8W	1500uF
HXE-75-36	36V	2.1A	75.6W	1000uF
HXE-75-48	48V	1.6A	76.8W	680uF

INPUT CHARACTERISTICS

Parameter	Units	Model
RATED INPUT VOLTAGE	100-240VAC	
OPERATING VOLTAGE RANGE	90-264VAC/120-373VDC	
FREQUENCY RANGE	47-63Hz 50/60Hz	
AVERAGE EFFICIENCY(115/230VAC)	87.0%	HXE-75-05
	88.0%	HXE-75-12
	88.0%	HXE-75-15
	88.0%%	HXE-75-24
	89.0%	HXE-75-36
	90.0%	HXE-75-36
AC CURRENT(Typ.)	1.7A/115VAC	
	0.85A/230VAC	
INRUSH CURRENT(Typ.)	COLD START 35A/115VAC,65A/230VAC	
LEAKAGE CURRENT	<0.75mA/240VAC	

OUTPUT CHARACTERISTICS

Parameter	Units	Model
RIPPLE & NOSE(max.)	100mVp-p	HXE-75-05
	120mVp-p	HXE-75-12
	120mVp-p	HXE-75-15
	150mVp-p	HXE-75-24
	200mVp-p	HXE-75-36
	200mVp-p	HXE-75-48

Parameter	Units	Model
VOLTAGE TOLERANCE	±2.0%	HXE-75-05
	±1.0%	HXE-75-12
	±1.0%	HXE-75-15
	±1.0%	HXE-75-24
	±1.0%	HXE-75-36
	±1.0%	HXE-75-48
LINE REGULATION	±0.5%	
LOAD REGULATION	±1.0%	HXE-75-05
	±0.5%	HXE-75-12
	±0.5%	HXE-75-15
	±0.5%	HXE-75-24
	±0.5%	HXE-75-36
	±0.5%	HXE-75-48
MINIMUM LOAD	0%	
STAND-BY POWER CONSUMPTION	0.3W	
SETUP TIME	500ms/230VAC at full load	
	800ms/115VAC at full load	
RISE TIME	30ms/230VAC at full load	
	20ms/115VAC at full load	
HOLD UP TIME (Typ.)	60ms/230VAC at full load	
	20ms/115VAC at full load	

PROTECTION

Parameter	Units
SHORT CIRCUIT	Protection type: Hiccup mode, recovers automatically
	after fault condition is removed
OVER LOAD	110%-150% Rated Output Power
	Protection type: Hiccup mode, recovers automatically
	after fault condition is removed
OVER VOLTAGE	5V:4.6~5.5V
	12V:10.8~13.8V
	15V:13.5~17.8V
	24V:21.6~28.8V
	36V:32.4~39.6V
	48V:43.2~52.8V
	Protection type: Shut down o/p voltage, re-power on to recover

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	CLASS I
VIBRATION	10~500Hz, 5G 10min./1 cycle,60 min. each along X,Y,Z axes
OVER VOLTAGE CATEGORY	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	BS EN/EN62368-1, BS EN/EN60335-1, BSEN/EN61558-1
WITH STAND 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
	110%-150% Rated Output Power
EMC EMISSION	Compliance to BS EN/EN55032(CISPR32)Class B
	BSEN/EN61000-3-2,-3,ClassA
EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,perf. CriteriaA
	BS EN/EN61000-4-11,perf.CriteriaA,BS EN/EN55035

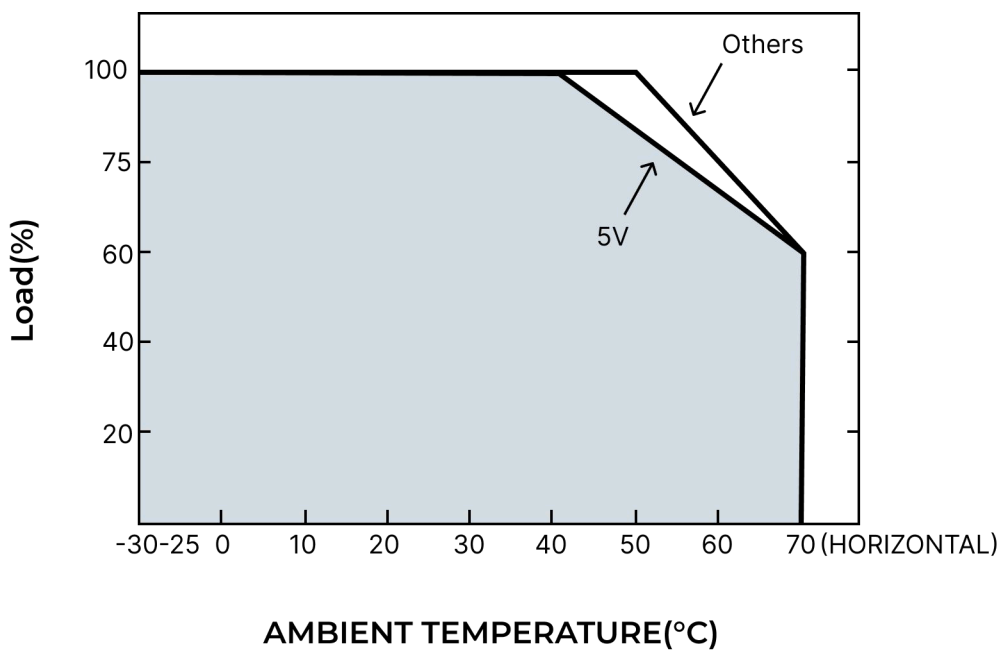
Note

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 fro low line to highline at rated load.
5. Load regulation is measured from 0% to 100% rated load.
5. Load regulatio6.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. n is measured from 0% to 100% rated load.
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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 re-confirmed 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
Length:	99mm/3.89in
Width:	97mm/3.22in
Height:	30mm/1.18n
Weight:	250g
Carton Size:	52×32.5×11.5CM
	20.47×12.80×4.53in
Master Carton Quantities:	45pcs/Carton

DEDUCTION CURVE AND TEMPERATURE



MINUS OUTPUT AND INPUT VOLTAGE CURVES

