



ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

AC/DC SWITCHING POWER SUPPLY
MEDICAL GRADE/OPEN FRAME150W
WITH PFC
AC INPUT 85~264
SINGLE OUTPUT

ZME150-SX-F-NG SERIES



Features

Low leakage current:0.2mA @AC264V
Withstand Voltage:Input~Output AC 4KV
Long Hold up Time:60ms @ 100ACV
Universal AC Input with PFC

Input

Input Voltage Range:	*1	AC85-264V
Input Current:		1.8A/0.9A (100/200V
Input Inrush Current	*3	AC)
		20A/40A (100/200V
		AC)
Input Frequency Range:	*1	47-63Hz

Output Characteristic		Unit	Models
			ZME150-24SX-F-NG
Rated Output Voltage	Vdc		24
Rated Output Power	W		151.2
Rated Output Current	A		6.3 (peak 9.1)
Output voltage range	V		21.6~26.4
Ripple and noise (max.)	mVpp		180
Hold up time	mS		60mSec.(100VAC full load)
Regulation			
a. Line Regulation (max.)	mV		60
b. Load Regulation (max.)	mV		120
c. Temperature Regulation(max.)	/°C		0.02%/°C
Efficiency	*2	%	85%~87%



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Environmental Specification	
Operating Temperature	-10 to +60 °C (45~60°C derating curve)
Operating Humidity	20~90%RH (no dew condensation permitted)
Storage Temperature	-20 to +75 °C
Storage Humidity	10~95%RH (no dew condensation permitted)
Cooling	Convection Cooling
Dielectric Strength	
Withstand Voltage	Input-output 4000V AC for 1 min Input-FG 2000V AC for 1 min Output-FG 500V AC 1min
Insulation Resistance	Input-output 100MΩ or more at 500V DC Input-FG 100MΩ or more at 500V DC Output-FG 100MΩ or more at 500V DC
Function	
Over Current Protection *4	9.1A~
Over Voltage Protection *5	27.6~32.4V
Remote Sensing	N/A
Remote On/Off control	N/A
Operational status indicator	None
Environmental Agencies	
Safety Standard	Conform IEC60601, EN60601, UL60601, IEC60950
EMI	Compliant FCC Part 15 Class B, CISPR11-1 Class B, VCCI Class B
EMS	IEC60601-1-2, IEC 61000-3-2(A14),3., IEC61000-4-2,3,4,5,8,11
Harmonic correction	IEC61000-3-2 A-14, IEC61000-4-2,3,4,5,8,11
Structure & Others	
Series Operation	Permitted
Parallel Operation	N/A
Leakage Current	0.1mA/0.2mA (132V/264V AC)
Vibration Resistance	5~10Hz: amplitude 10mm, 10~55Hz: sweep 3min. Acceleration: 19.6m/s ² direction: X, Y, Z for 1 hour each
Shock Resistance	196 m/S ² or less, once each X, Y, Z
Mechanical	
Dimension [mm]	37×100×180
Weight [g] (typical)	500g

Power Factor (typ.): 0.9 or higher

- *1: Rated input voltage range for safety standard application is 100-240V AC 50/60Hz
- *2: Input volt : 100/200V AC, full load, Ta: 25°C
- *3: Input volt : 100/200V AC, full load, Ta: 25°, cold start Specification may differ depending on temperature or power on again because of power thermistor.
- *4: Over-load protection: constant current limit with automatic recovery.
- *5: Output shutdown method. Output returns by power on again.

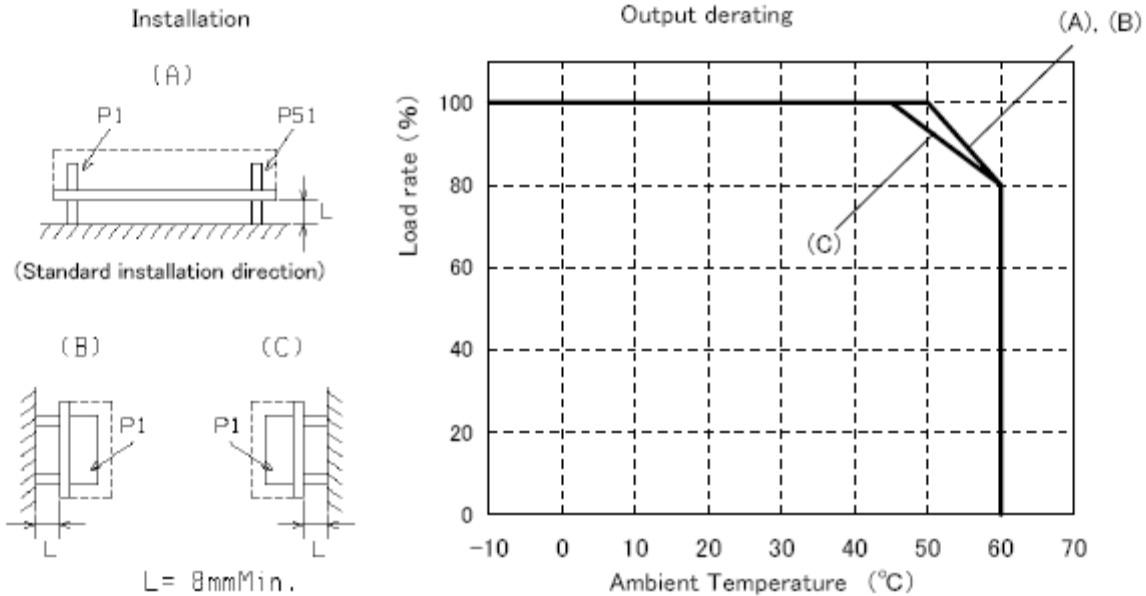




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DERATING CURVE



Connector Specification

I/O connector specification

P/N	Pinout table		Connector model No.	Mating connector
P1 Input	PIN1	AC(L)	JST B3P5-VH	JST VHR-5N (BVH-21T-P1.1 or SVH-21T-P1.1)
	PIN2	Blank		
	PIN3	AC(N)		
	PIN4	Blank		
	PIN5	FG		
P51 Output	PIN1	-	JST B6P-VH	JST VHR-6N (BVH-21T-P1.1 or SVH-21T-P1.1)
	PIN2	-		
	PIN3	-		
	PIN4	+		
	PIN5	+		
	PIN6	+		



