

Medical / ITE Open Frame



Features

- 4" x 2" Compact Size
- 2 x MOPP, IEC/EN60601-1 Approval
- Protections:
Short circuit / Over voltage / Over current / Over temperature
- Energy Efficiency $\geq 90\%$ ~93% depends on models
- No Load Power Consumption $\leq 0.3W$
- MTBF > 100,000 hours
- Low Leakage Current
- 150W Convection / 200W Forced Air
- Customized Solutions Available

EPM1153 U - XX YY

U: Output range

XX: Specified output voltage, i.e. 12 is 12VDC

YY: Differential segmentation

General Specification

OUTPUT

MODEL No.	OUTPUT POWER (W)		OUTPUT VOLTAGE (Vo)	MIN. LOAD (Io)	MAX. LOAD (Io)		LOAD REGULATION	LINE REGULATION	RIPPLE & NOISE
	Convection	Forced air 10CFM			Convection	Forced air 10CFM			
EPM1153A	130W	170W	12V	0A	10.83A	14.16A	$\pm 1\%$	$\pm 0.5\%$	100mV
EPM1153B	130W	170W	15V	0A	8.66A	11.33A	$\pm 1\%$	$\pm 0.5\%$	100mV
EPM1153C	130W	170W	24V	0A	5.41A	7.08A	$\pm 1\%$	$\pm 0.5\%$	120mV
EPM1153D	130W	170W	27V	0A	4.81A	6.29A	$\pm 1\%$	$\pm 0.5\%$	120mV
EPM1153E	130W	170W	48V	0A	2.7A	3.54A	$\pm 1\%$	$\pm 0.5\%$	120mV
EPM1153F	150W	200W	12V	0A	12.5A	16.66A	$\pm 1\%$	$\pm 0.5\%$	100mV
EPM1153G	150W	200W	15V	0A	10A	13.33A	$\pm 1\%$	$\pm 0.5\%$	100mV
EPM1153H	150W	200W	24V	0A	6.25A	8.33A	$\pm 1\%$	$\pm 0.5\%$	120mV
EPM1153J	150W	200W	27V	0A	5.55A	7.4A	$\pm 1\%$	$\pm 0.5\%$	120mV
EPM1153K	150W	200W	48V	0A	3.12A	4.16A	$\pm 1\%$	$\pm 0.5\%$	120mV

NOTE:

- 1 : Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.
- 2 : Line regulation is defined by changing $\pm 10\%$ of input voltage from nominal line at rated load.
- 3 : Max. Power (W) $\geq V_o \times I_o$

INPUT

- Input Range: 100 to 240 VAC
- Frequency: 50 to 60Hz
- Input Current: 3A to 1A
- Inrush Current: $\leq 60A/230VAC$
- Hold Up Time: $\geq 8.3ms$
- Turn On Time: $\leq 1s$

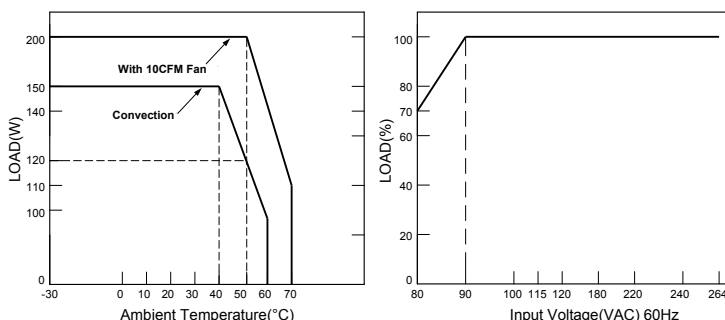
PROTECTION

- Short Circuit Protection: Auto Recovery
- Over Current Protection: Auto Recovery
- Over Voltage Protection: Auto Recovery
- Over Temperature Protection: Auto Recovery

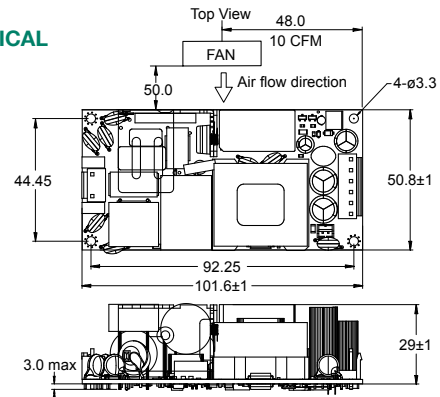
ENVIRONMENT

- Operating Temperature: -20 to 50°C
- Storage Temperature: -40 to 85°C
- Operating Humidity: 10% to 90 %
- Storage Humidity: 5% to 95 %

DERATING CURVE



MECHANICAL



- Mechanical Size: 101.6L x 50.8W x 29H (mm)
- Pin Assignment:
AC Input Connector (CON1) : JST B3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/N		

DC Output Connector (CON2) : JST B6P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1, 2, 3	+V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
4, 5, 6	-V		

- Weight: 200g

SAFETY

- Certified for whole series: CB IEC 60601-1, CE EMC(EN 60601-1-2), CB IEC 62368-1, CE EMC(EN 55032+EN 55035), FCC Part 15B
- Complied with ANSI/AAMI ES60601-1, CAN/CSA-C22.2 No. 60601-1, TUV EN 60601-1, UL 62368-1, CAN/CSA C22.2 No. 62368-1, TUV EN 62368-1