

Features



- 4" x 2" compact size with low profile (25.4mm)
- 2 x MOPP, IEC/EN60601-1 Compliance
- Protections :
 - Short circuit / Over voltage / Over current / Over temperature
- Energy Efficiency $\geq 90\%$ depends on models
- No Load Power Consumption $\leq 0.3W$
- MTBF > 100,000 hours
- Low Leakage Current
- 180W Convection / 300W Forced Air / 450W Peak Load 3s
- 150% Peak Load @ 3s
- Customized Solutions Available

EPM118A U - XX YY

- U: Output range
XX: Specified output voltage, i.e. 12 is 12VDC
YY: Differential segmentation

General Specification

OUTPUT

MODEL No.	MAX. OUTPUT POWER (W)			OUTPUT VOLTAGE (Vo)	MIN. LOAD(Io)	MAX. LOAD(Io)			LOAD REGULATION	LINE REGULATION	RIPPLE & NOISE
	Convection	Forced air 10CFM	Peak(3s) with Fan			Convection	Forced air 10CFM	Peak(3s) with Fan			
EPM118AA	150W	300W	450W	12V	0A	12.5A	25A	37.5A	$\pm 1\%$	$\pm 0.5\%$	120mV
EPM118AB	160W	300W	450W	15V	0A	10.66A	20A	30A	$\pm 1\%$	$\pm 0.5\%$	150mV
EPM118AC	170W	300W	450W	18V	0A	9.44A	16.66A	25A	$\pm 1\%$	$\pm 0.5\%$	180mV
EPM118AD	180W	300W	450W	24V	0A	7.5A	12.5A	18.75A	$\pm 1\%$	$\pm 0.5\%$	240mV
EPM118AE	180W	300W	450W	27V	0A	6.66A	11.11A	16.66A	$\pm 1\%$	$\pm 0.5\%$	270mV
EPM118AF	180W	300W	450W	30V	0A	6A	10A	15A	$\pm 1\%$	$\pm 0.5\%$	270mV
EPM118AG	180W	300W	450W	36V	0A	5A	8.33A	12.5A	$\pm 1\%$	$\pm 0.5\%$	300mV
EPM118AH	180W	300W	450W	48V	0A	3.75A	6.25A	9.37A	$\pm 1\%$	$\pm 0.5\%$	300mV
EPM118AJ	180W	300W	450W	54V	0A	3.33A	5.55A	8.33A	$\pm 1\%$	$\pm 0.5\%$	300mV

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 $\leq 3.5A$
- Inrush Current $\leq 60A/230VAC$
- Hold UP Time $\geq 8.3ms$
- Turn On Time $\leq 3s$

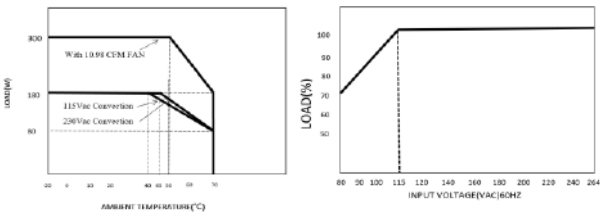
PROTECTION

- Short Circuit Protection Auto Recovery
- Over Current Protection Auto Recovery
- Over Voltage Protection Auto Recovery or Latch-off (optional)
- Over Temperature Protection Auto Recovery

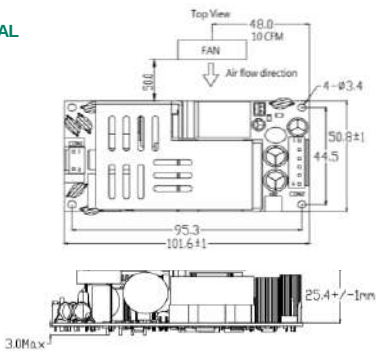
ENVIRONMENT

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

DERATING CURVE



MECHANICAL



- Mechanical Size: 101.6L x 50.8W x 25.4H (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: 230g

SAFETY

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