

Model: BPA-R1000-120

Total Power	1000 Watts
Input Voltages	90-264 VAC
Outputs	Single plus 3.3VSB

SPECIAL FEATURES

- Active Power Factor Correction
- Wide Range Input
- Redundant operation
- Single wire current sharing
- FET isolation
- Power Good
- PS_On
- PS_Kill
- Variable Fan Speed Control
- I²C interface with PMBUS Standard
- UL, CUL, and DEMKO Approvals
- CE compliant
- **Custom modifications available**

ENVIRONMENTAL SPECIFICATIONS

Humidity: Up to 95% non-condensing

Storage Temperature: -20° to +85°C

Temperature coefficient: ±0.01% / °C

Ambient Operating Temperature: 0 to +50°C continuous duty, full rating. Derate linearly to 50% of full rating at +71°C.

Altitude: Will operate properly at 10,000ft

Cooling: Self-contained fan cooling.

SAFETY APPROVALS

UL 60950-1 Second Edition
 CUL 60950-1 Second Edition
 DEMKO EN60950-1 Second Edition



VOLTAGE/CURRENT RATING CHART

Output ID	Voltage	Min.	Max.	Peak 30Sec	Peak 5mSec
VO1	+12V	0A	83A	90A	100A
3.3VSB	+3.3VSB	0A	8A	N/A	N/A

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range..... 90-264 VAC
 Frequency..... 47-60 Hz
 EMI filter..... EN55022 Class B, FCC Part 15
 Inrush Current..... ≤20A @ 110 VAC
 Input Current..... 14A
 Isolation..... 4242 VDC (Input to Output)
 Efficiency..... 90% at 220VAC
 Active PFC..... 0.99
 Switching Frequency..... 134KHz.
 Leakage..... ≤1.5mA @ 264 VAC

Output Specifications

DC Output..... Maximum continuous output power 1000 Watts with self-contained fan cooling. Peak of 90A for 30 seconds, maximum peak 100A for 5ms.

Line Regulation..... ±0.05%

Load Regulation..... ±2% on all outputs.

Ripple and Noise..... 1% Pk to Pk

Transient Response..... 2% Maximum deviation; returns to initial condition in 1msec max, for load changes from 50% to 100%.

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Model: BPA-R1000-120

ELECTRICAL SPECIFICATIONS (CONT')

Output Specifications

Long Term Stability..... 0.01% after 20 minute warm-up.

Hold-Up Time..... 16msec minimum

OVP.....110% to 130% on all outputs. AC must be recycled to restart the unit.

Short-circuit Protection.....Latching method on all outputs

Overload Protection.....The power supply will shut down when the output power rating exceeds 110% to 115% of maximum rated output for a minimum of 1 minute or exceeds 125% of maximum rated output current for a minimum of 10ms. AC must be recycled to restart the unit.

Diode Isolation..... Internal FET isolation provided for redundant operation.

Current Sharing.....all outputs will current share within 5% when interconnected by a single wire.

Remote Sense.....All outputs. 12V will have differential remote sense and 3.3V will have single ended remote sense.

AC Fail.....A TTL low signal provided 10ms prior to DC outputs dropping out of regulation.

PS_On.....The secondary outputs are enabled only upon mating pin A1to output common on the customer's backplane.

Power Good..... A TTL low logic signal is provided when the output voltages are within normal operating conditions.

PS_Seated.....Pin A4 on the power supply is used to identify that the power supply has been installed into the customer's backplane.

PWRON/PS_KillThe output is enabled only upon mating B4 to output common on the customer's backplane. PS_Kill disables power supply functionality prior to long pins disconnecting.

LED Indicators The power supply has 2 bicolor LED's providing the power supply status and the fan status. If all outputs are operating within specifications the status LED will be green. Red LED indicates power supply out of specification. The fan LED will be controlled via the I²C bus.

Thermal Protection.....The power supply has a built in thermal sensor to protect against abnormal temperature conditions.

I²C/PMBUS.....Monitors input current, input voltage, temperature, output voltage, and output current; controls Fan speed, Fan LED and connects to a serial NVRAM which is programmed with serial number. PMBUS Standard to allow monitoring of overall operation of power supply.

OVERALL MECHANICAL DIMENSIONS

11.3"L x 3.3"W x 1.59"H
(287.5mm x 84.2mm x 40.5mm)

CONNECTORS

AC input – IEC320 C14 Inlet

DC output – FCI 51721

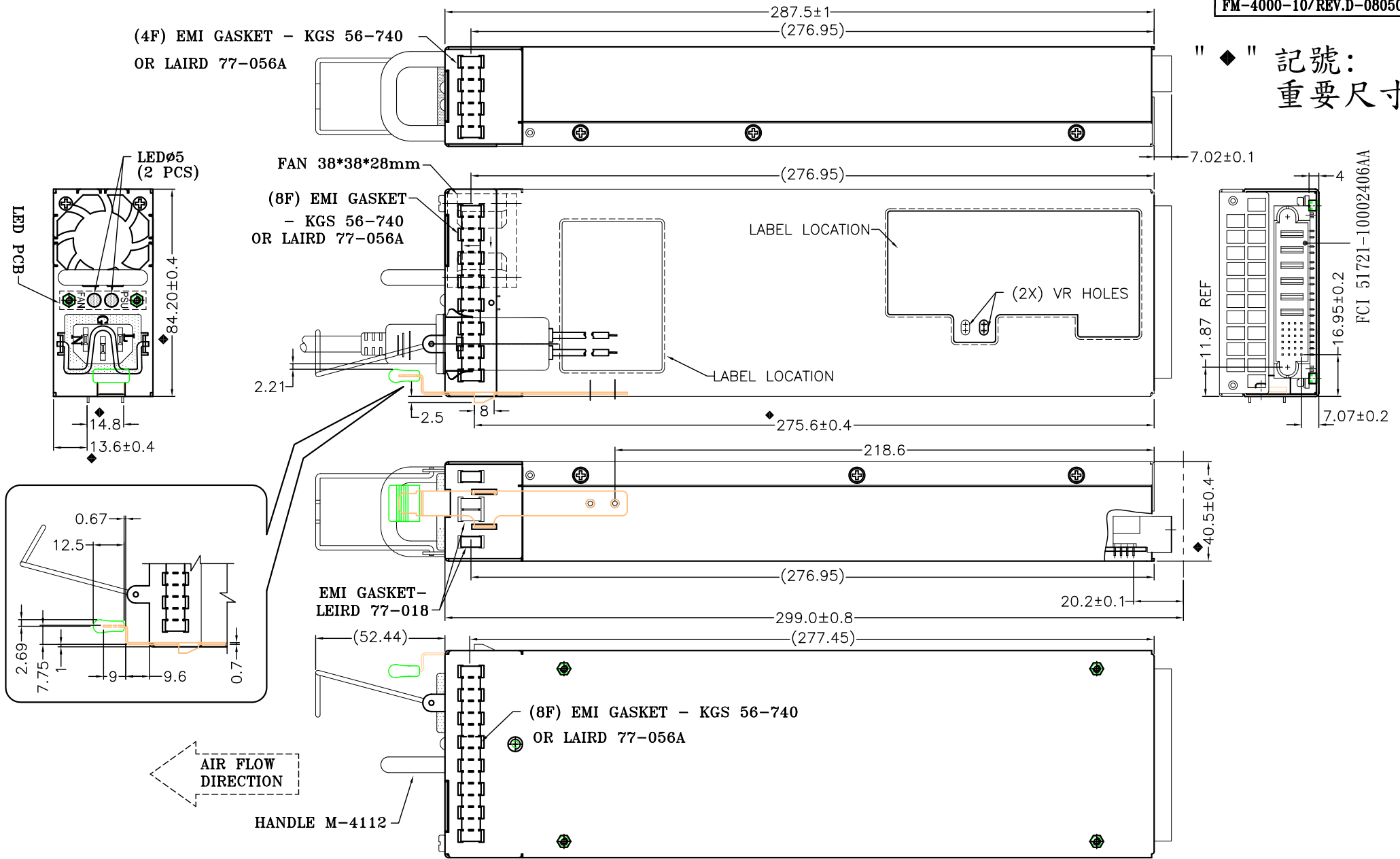
NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 2 years
- Weight: 3.75lbs

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BPA-R1000-120 Spec – 030111

“◆” 記號：
重要尺寸



TITLE		OUTLINE DRAWING			
UNIT	mm[inches]	REV. NO.	F	SCALE	0.48 : 1
THIRD	\oplus			TOL.	\pm 0.5
MAT'L		DATE	06. 04. 2010	t=	
DRAWN	H. L. LIN	DRG. NO.	BLU-398	CHECKED	
		MODEL NO.	BPA-R1000-120		



300-1 (B2) Route 17, Loch, NJ 07644

MODEL NO. : BPA-R1000-120 LF

INPUTS :

ASSIGNMENT	A.C. VOLTAGE	CURRENT	PIN NBR
L:	100-277V~	14A	L
N:			N
G:		50-60Hz	G

IN/OUTPUT RATING & PIN ASSIGNMENT

SIZE : A4	FM-4000-34/REV.A-080502'
UNIT : mm[inches]	FILENAME: PPSC0544
REV. NO.: H	DATE : 01. 26. 2011
DRAWN: 吴琪梅 C. M. WU	CHECKED:

OUTPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
V01:	+12V ---	83A	P2-PB4,PB5,PB6
DC COM:			P2-PB1,PB2,PB3
DC COM:			P2-A6,B6,C6,D6
3.3VSB:	+3.3V ---	8A	P2-A5,B5,C5,D5
12VS+:	(shorter pin)		P2-B2
12VS-:			P2-A2
12VCS:			P2-B3
3.3VS+:	(shorter pin)		P2-D4
3.3VCS:			P2-C4
PS_ON:	(shorter pin)		P2-A1
PS_SEATED:	(shorter pin)		P2-A4
PS_KILL:	(shorter pin)		P2-B4
SDA:			P2-C1
SCL:			P2-C2
P.OK:			P2-C3
ADDR0:			P2-D1
ADDR1:			P2-D2
FAN_TACH:			P2-D3
AC_OK:			P2-B1
NA:			P2-A3

MAXIMUM OUTPUT POWER: 1000W

D1	D2	D3	D4	D5	D6	PB1	PB2	PB3	PB4	PB5	PB6
C1	C2	C3	C4	C5	C6						
B1	B2	B3	B4	B5	B6						
A1	A2	A3	A4	A5	A6						

- A1 pin is shorter
- B4 pin is shorter
- B2 pin is shorter
- D4 pin is shorter
- A4 pin is shorter

