



Model: BPD-R250-120I

Total Power	250 Watts
Input Voltages	36-72 VDC
Outputs	Single plus 5VSB

SPECIAL FEATURES

- Redundant operation
- Isolated 12V output
- Single wire current sharing
- Diode isolation
- Power good signal
- PS_On
- RoHS compliant
- UL, cUL and DEMKO to EN60950-1
- CE compliant

ENVIRONMENTAL SPECIFICATIONS

Humidity: Up to 95% non-condensing

Storage Temperature: -20° to +85°C

Temperature coefficient: $\pm 0.01\%$ / °C

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

Cooling: 10-CFM fan cooling required

SAFETY APPROVALS

UL	60950-1, 2nd Edition, 2011-12-19
CUL	60950-1, 2nd Edition, 2011-12-19
DEMKO	EN60950-1EN 60950-1:2006, A11:2009, A1:2010, A12:2011



- 250 Watts
- High Density - 1U Profile
- Redundant Operation

ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range:	36-72 VDC
EMI Filter:	EN55022 Class A, FCC Part 15
Inrush Current:	$\leq 32A$ @ 72 VDC
Input Current:	9.0A - 4.3A
Isolation:	4242 Input to Output 2121 Input to ground 2121 Output to ground
Efficiency:	80% @ 48 VDC

Output Specifications

Line Regulation..... Maximum continuous
output power 250 Watts with 10-CFM fan cooling.

Line Regulation..... $\pm 0.05\%$

Load Regulation..... $\pm 1\%$ on both outputs

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

Transient Response..... 2% Maximum deviation;
returns to initial condition in 1 msec max.

Model: BPD-R250-120I

ELECTRICAL SPECIFICATIONS (CONT')

Output Specifications

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

OVP.....115% to 135% on both outputs. DC must be recycled to restart the unit.

Short-circuit Protection.....Hiccup method.

Overload Protection.....The overload protection feature will reduce the output voltage to a safe dissipation level when the output power rating exceeds 105% of maximum rated power. The unit will automatically return to regulation upon removal of the overload.

Diode Isolation..... Internal diode isolation provided for N+1 redundant operation.

Current Sharing.....VO1 output will current share within 5% when interconnected by a single wire.

Power Good..... A TTL high logic signal is provided on pin P3-1 when the output voltages are within normal operating conditions.

PS_On.....The secondary outputs are enabled only upon mating pin P3-2 to output common on the customer's backplane.

OVERALL MECHANICAL DIMENSIONS

U-Bracket Construction
5"L x 3.3"W x 1.5"H
(127mm L X 83.82mm W X 38.1mm H)

PIN ASSIGNMENTS

+Vin, - Vin, Ground.....See attached In/Output Rating and Pin Assignment Drawing

DC Output Connectors
P2-1, 2, 3, 4, 5.....DC Common
P2-6, 7, 8, 9, 10.....+VO1

P3-8.....Fan 2 Sense
P3-7.....Fan 1 Sense
P3-6.....+VO1 Current Share
P3-5.....+5VSB
P3-4.....-VO1 Sense
P3-3.....+VO1 Sense
P3-2.....PS_On
P3-1.....Power Good

CONNECTOR

+Vin, -Vin, Ground JST: STO-61T-250N
DC output P2 – Molex: 26-60-4100
P3 – AMP: 640456-8

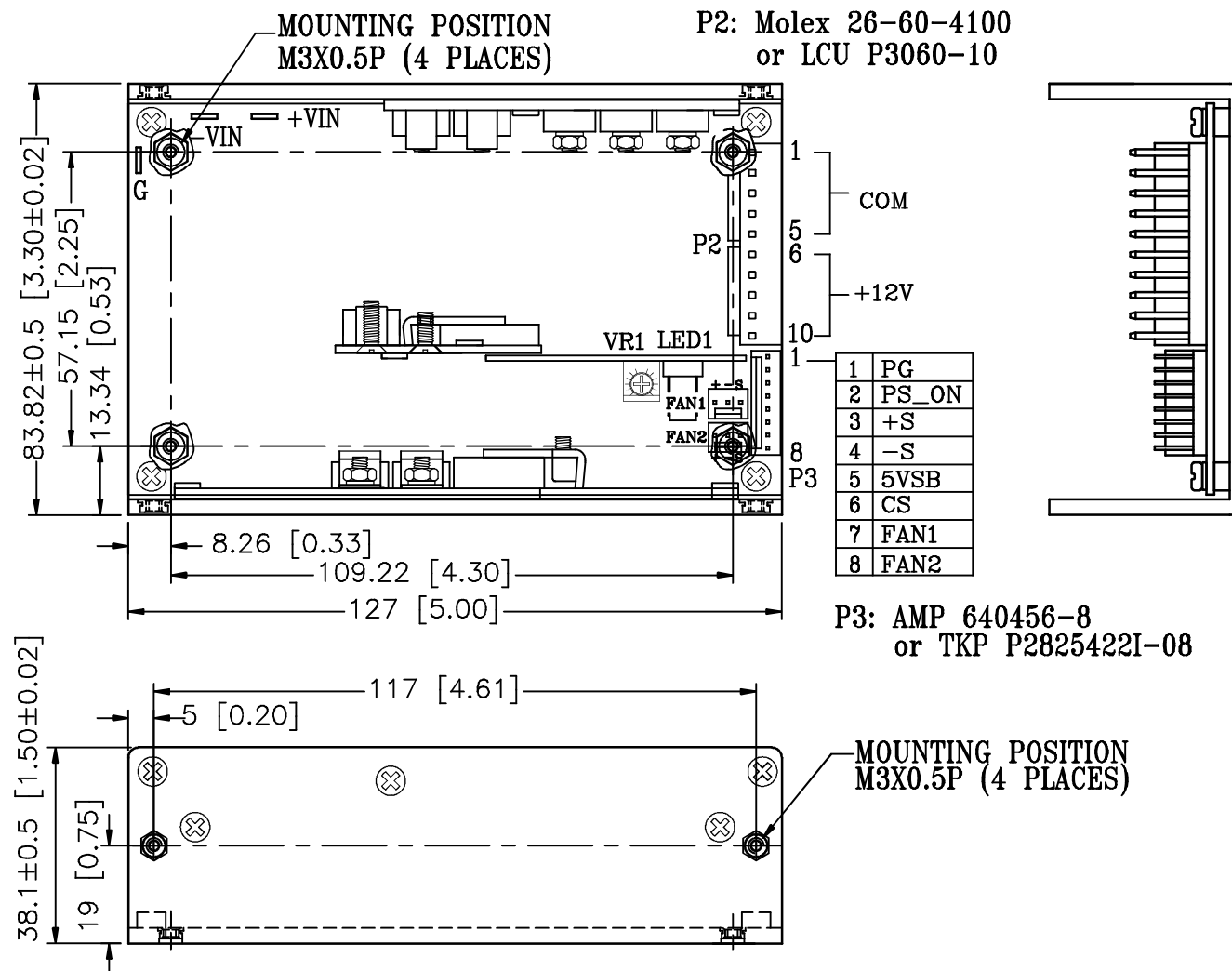
NOTES

- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 2 year
- Weight: 1.25 lbs.

VOLTAGE/CURRENT RATING CHART

Part Number	Assignment	Voltage	Minimum	Maximum
BPD-R250-120I	VO1	+12V*	0A	20.8A
	5VSB	+5V	0A	0.1A

* Output is isolated from ground.



試用機種:

BPD-R250-120

BPD-R250-120I

BluTek Power

TITLE

OUTLINE DRAWING

DRAWN

C. M. WU

DRG. NO.

BLU-223

CHECKED

MODEL NO.

UNIT	mm[inches]	REV. NO.	A	SCALE	0.7 : 1	MAT'L	t=
THIRD				TOL.	± 0.2	DATE	06. 03. 2014

IN/OUTPUT RATING & PIN ASSIGNMENT

MODEL NO. : BPD-R250-120I LF

INPUTS :

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
+VIN:	36-72V---	9A	+
-VIN:			-
GND:			G

OUTPUTS :

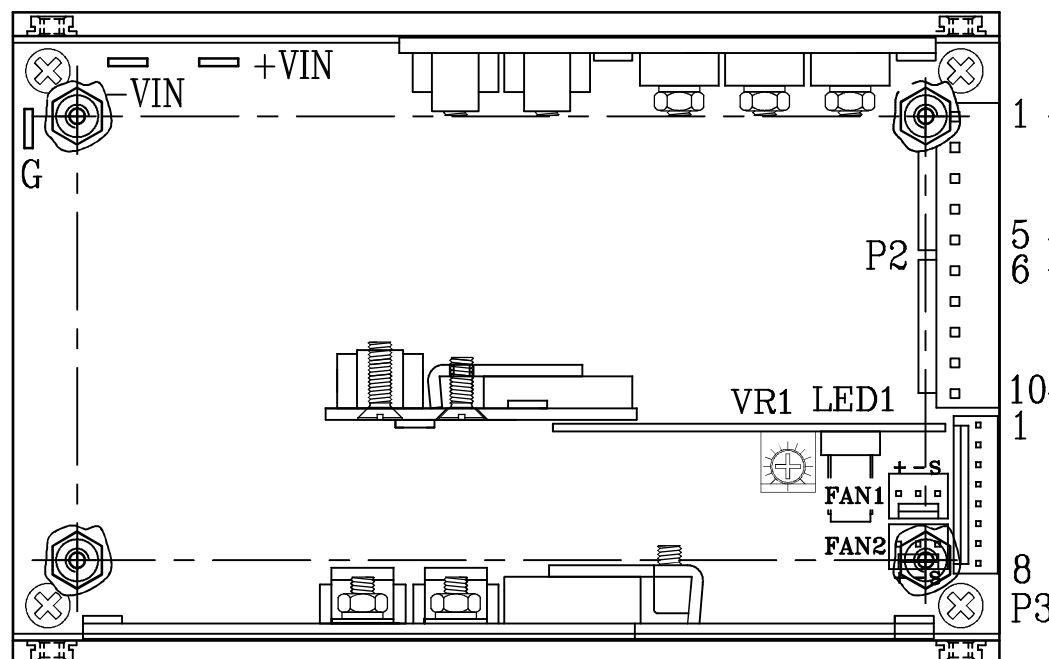
ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
VO1:	+12V ---	20.8A	P2-6,7,8,9,10
DC COM:			P2-1,2,3,4,5
PG:			P3-1
PS_ON:			P3-2
+S:			P3-3
-S:			P3-4
+5VSB:			P3-5
CS:			P3-6
FAN1:			P3-7
FAN2:			P3-8

MAXIMUM OUTPUT POWER: 250W

Faston connector for +Vin, -Vin and Ground---

Manufacturer's name: JST

Part no.: STO-61T-250N



P2: Molex 26-60-4100
or LCU P3060-10

P3: AMP 640456-8
or TKP P2825422I-08

SIZE : A4	FM-4000-34/REV.A-080502'
UNIT :mm[inches]	FILENAME: PPSC0614
REV. NO.: A	DATE : 06. 03. 2014
DRAWN: 吳琪梅 C. M. WU	CHECKED: