

Model: BPD-C300C-120E

Total Power	300 Watts
Input Range	14.4-154 VDC
Outputs	12V plus 5VSB

SPECIAL FEATURES

- Wide Range
- Active Current Share Single wire
- Remote Sensing
- N+1 Redundancy
- Power Fail
- PS ON
- Enable
- Temperature Monitoring
- I2C interface with PMBus communication
- Hot Pluggable
- RoHS compliant
- UL, CUL, and DEMKO
- CE compliant
- Custom modifications available

ENVIRONMENTAL SPECIFICATIONS

Humidity: Up to 95% non-condensing

Storage Temperature: -40° to +85°C

Ambient Operating Temperature: -40 to +70°C

continuous duty, full rating.

Cooling: 20CFM forced air cooling required

SAFETY APPROVALS -

UL & cUL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment – Safety – Part 1: General

Requirements)

IEC 60950-1 (2005) (2nd_Edition): Am 1:2009 + Am

2:2013

Demko EN 60950-1:2006/A11 :2009, EN 60950-1:2006/A12:2011, EN 60950-1:2006/A1:2010, EN

60950-1:2006 /A2:2013



ELECTRICAL SPECIFICATIONS

Input Specifications

Input Range	14.4-154 VDC
EMI filter	EN55022 Class B, FCC
Part 15	
Part 15 Inrush Current	≤30A
Input Current	19.8A @ 16.8VDC
Isolation	2828 VDC (Input to
Output)	` '
Efficiency	>89%

Output Specifications

DC Output......Maximum continuous output power 300 Watts with 20CFM fan cooling required

Line Regulation.....±0.5%

Load Regulation..... ±1% on main output

Ripple and Noise......2% Pk to Pk

300-1 Route 17 South Suite B2 Lodi, NJ 07644 Phone: (973) 594-1800 Fax: (973) 594-1804 salesteam@blutekpower.com

Model: BPD-C300C-120E

ELECTRICAL SPECIFICATIONS (CONT')

Output	t Snec	ifications	
Output	. Opco	meanons	

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

OVP.....Set at 115% to 135%. Latching method. DC must be recycled to restart the unit.

Short-circuit Protection......The units will withstand a continuous short without damage. It will automatically return to regulation upon removal of the short.

Overload Protection.......The overload protection feature will reduce the output voltage to a safe dissipation level when the output power rating exceeds 110% of maximum rated power. The unit will automatically return to regulation upon removal of the overload.

ORing FET.....ORing FET provided for redundant operation.

Active Current Share12V Output will current share within 5% when interconnected by a single wire

Passive Current Share5VSBY droop type

Remote Sensing12V Output only

PS_ONDigital Input: A logic low enables the Main output of the supply.

EnableDigital Input. When driven high, main output is disabled. When Low, power supply main output state is as controlled by PS_ON.

FAL/PWR_FAILDigital output, Open Collector, driven high when outputs are in regulation.

DEG Open Collector,
temperature warning signal A TBD temperature will
change signal state from Hi to Low or Low to Hi
(programmable preferences)

PS PresentDigital Output. Pulled low via 100 Ohm resistor

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

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

LED IndicatorsThe power supply will have two LED's providing the power supply status:

	All outputs are operating within spec	Steady Green
L.	Standby (PSON disabled)	Blinking Green
9	Voltage or Temperature warning	Blinking Yellow
b	Voltage or Temperature fault	Steady Yellow
4	PSKILL and/or power supply off	NO LED's

OVERALL MECHANICAL DIMENSIONS

See attached Outline Drawing

PIN ASSIGNMENTS

See attached In/Output Rating and Pin Assignment Drawing

CONNECTOR

Input/Output......FCI Connector 51939-667

NOTES

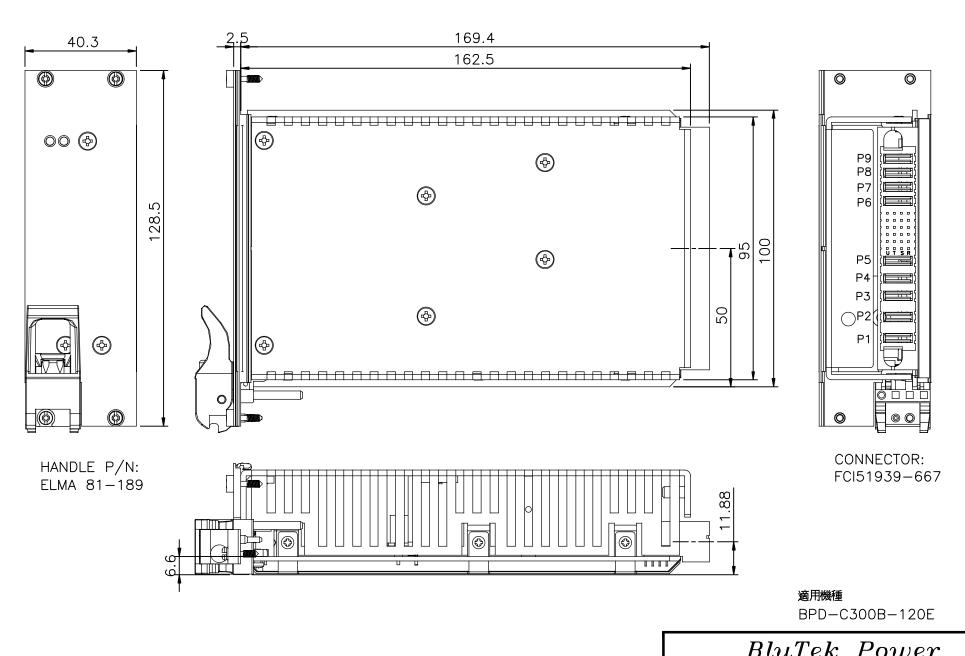
- Specifications subject to change without notice.
- All dimensions in inches/mm
- Warranty: 2 year
- Weight: Approx. 1.6lbs (0.68Kg)

VOLTAGE/CURRENT RATING CHART

Part Number	Assignment	Voltage	Minimum	Maximum
BPD-C300C-120E	VO1	+12V	0A	25A
	5VSB	+5V	0A	2.5A

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TITLE 外観尺寸圖											D 0001 CIC	1 0 00 1	
										TITLE	外觀	尺寸圖	
THIRD	UNIT	mm[inches]	REV. NO.	A	SCALE	0.7 : 1	MAT'L		t=	DRAWN	L. J. HUN	DRG. NO.	BLU-739
IMMED GILL - ONE BATE CONTINUED MODEL NOT BEEN COUNTY	THIRE) +	\downarrow		TOL.	± 0.2	DATE	05. 07.	2014	CHECKED		MODEL NO.	BPD-C300C-120E

BluTek Power

IN/OUTPUT RATING & PIN ASSIGNMENT

SIZE: A4 FM-4000-34/REV.A-080502'

UNIT: mm[inches] FILENAME: PPSC0613

REV. NO.: D DATE: 08. 09. 2016 DRAWN: 洪麗珍 | CHECKED:

L. J. Hun

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

MODEL NO. : BPD-C300C-120E BPD-C300C-120EC INPUTS:

ASSIGNMENT +VIN:

D.C. VOLTAGE 14.4 - 154 V = - CURRENT 25A

PIN NBR

P5 **P4**

P3

-VIN: GND:

P/N: FCI51939-667

P1 P2 P3 P4 P5 123456 P6 P7 P8 P9



P1	P2	P3	P4	P5	U1	U2	H3	U4	U5	U6	P6	P7	P8	P9	
					NU	FAL/ PWR_FAIL	NU	СОМ	DEG	5VSTBY					
					T1	T2	G3	T4	T5	T6					
					NU	NU	COM	AO	5VSTBY	5VSTBY	сом	сом	сом	+12V OUT	+12V OUT
NU	NU	GND	-VIN	+VIN	S1	S2	F3	S4	S5	S6					
					NU	12VCS	PSON	A1	SCL	COM			"	001	
					R1	R2	E3	R4	R5	R6					1 1
					NU	-VS	+VS	A2	SDA	Enable					

OUTPUTS:

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
V01:	12V 	25A	P8,P9
DC COM:	G3 (SHORT P	IN)	P6,P7,S6,G3,U4
5VSB:	5V ===	2.5A	T5,T6,U6
-VS:			R2
12VCS:			S2
FAL/PWR_FAIL:			U2
+VS:	(SHORT PIN)	E3
PS_ON:	(SHORT PIN)	F3
A2:			R4
A1:			S4
A0:			T4
SDA:			R5
SCL:			S5
DEG:	•		U5
ENABLE:			R6
NU:			P1,P2,R1,S1,T1,U1,T2,H3

MAX 300W WITH FORCED AIR COOLING (MIN. 20CFM)

THE SHORTER PINS ARE H3,G3,F3,E3

