

AC Power Distribution Unit YSU.00226, YSU.00227

Bel Power Solutions AC Power Distribution Unit (PDU) is used to distribute 3 Phase 208 - 240 V AC voltage in IT Racks.

This device is installed in an IT Rack.

The AC lines are distributed to the 3 Phase 208 - 240 V configured SPSPFE3 series Power Shelves, which provide DC power to the IT devices.

AC PDU is protected by 32A C curve UL1077 circuit breaker.



Key Features & Benefits

- Single AC input and dual 2x AC outputs
- Circuit Breaker protection for AC outputs
- Robust Mechanical design
- Dimensions: 80 x 870 x 200 mm (3.15 x 34.25 x 7.87 in)

1. ORDERING INFORMATION

MODEL	PART NUMBER	INPUT VOLTAGE	INPUT CURRENT	# of INPUTS	# of OUTPUTS	INPUT PLUG TYPE	MFN
BPS 51 A 208V 3P AC PDU	YSU.00226	208 - 240	51 A	1	2 x 2	460P9W	HUBBELL
BPS 50 A 208V 3P AC PDU	YSU.00227	208 - 240	50 A	1	2 x 2	CS8365C	HUBBELL

2. INPUT SPECIFICATIONS

The table below shows a summary of the PDU input electrical characteristics:

PARAMETER	CONDITIONS / DESCRIPTION	MIN	NOM	MAX	UNITS
AC Input Voltage	3 Phase 208 - 240 V (3W + PE)		208	240	VAC
Frequency			50/60		Hz
Nominal Continuous Input Current	YSU.00226 per phase			51	Arms
Nominal Continuous Input Current	YSU.00227 per phase			50	Arms

2.1 INPUT CONNECTIONS

The following pictures show the different connectors used in the different models:

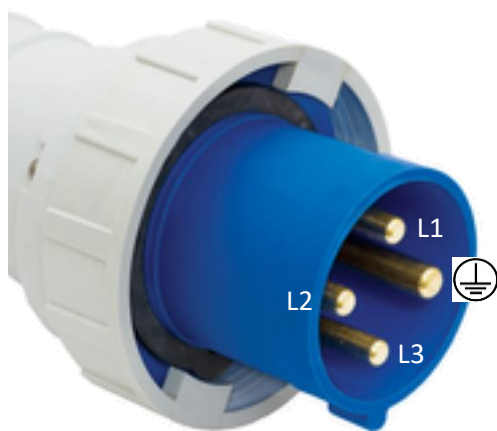


Figure 1. 460P9W



Figure 2. CS8365C

LINE	DESCRIPTION
L1	X (black)
L2	Y (red)
L3	Z (white)
⊕	G (green)

2.2 INPUT CIRCUIT BREAKERS

DESCRIPTION	REFERENCE DESIGNATOR	MPN	MFN	No of Poles
32A C curve UL1077	OUTPUT A, OUTPUT B	2CDS253001R0324	ABB	3

3. OUTPUT SPECIFICATIONS

The output connectors distribute the AC voltage to the power shelves on the IT Rack.

3.1 OUTPUT CONNECTIONS

The following picture show the output connector and the pin assignment.

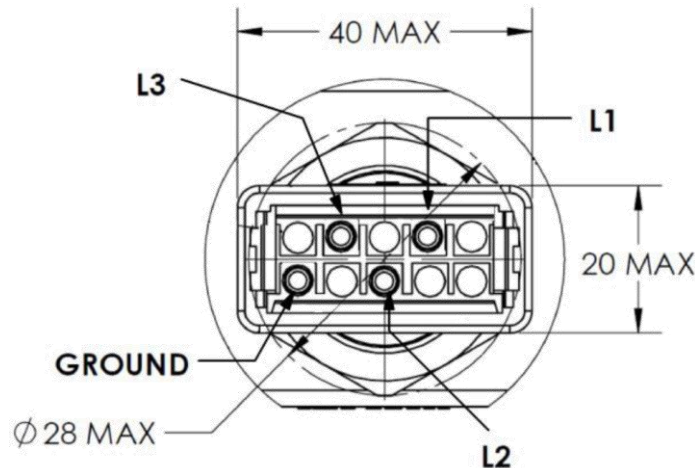


Figure 3. Female Positronic SP5YYE1F0091/AA

PARAMETER	CONDITIONS / DESCRIPTION	MIN	NOM	MAX	UNITS
AC Output Voltage	OUTPUT A, OUTPUT B		208	240	VAC
Frequency			50/60		Hz
Nominal Continuous Input Current	YSU.00226 sum per phase			25.5	Arms
Nominal Continuous Input Current	YSU.00227 sum per phase			25	Arms

4. SAFETY WARNING

The user assumes all responsibility and liability for proper and safe handling of the goods. Further, the user indemnifies Bel Power Solutions Inc. from all claims arising from the handling or use of the goods. Persons handling the product(s) must have electronics training and observe good engineering practice standards.

CAUTION: Multiple power source. Disconnect all power cords before servicing.

5. SAFETY, REGULATORY AND EMC SPECIFICATIONS

The table below summarizes the safety approval certificates.

PARAMETER	DESCRIPTION / CONDITION	CRITERION
Agency Approvals	Approved to the latest revisions/amendments of the following standards: UL 62368-1 2nd Ed, CAN/CSA-C22.2 No. 62368-1:14	Approved
Insulation	Primary (L/N) to case (PE)	Basic
Creepage / Clearance (α)	Primary (L/N) to case (PE)	
Electrical Strength Test	Input to case	Min. 2121 VDC

6. ENVIRONMENTAL SPECIFICATIONS

PARAMETER	CONDITIONS / DESCRIPTION	MIN	NOM	MAX	UNITS
Operating Ambient Temperature		0		+32	°C
Storage Temperature		-40		+70	°C
Relative Humidity	Operating: @ at 32°C, non-condensing Non-Operating: non-condensing	10 5		90 95	%
Altitude	Operating Non-Operating			TBD TBD	m
Shock	Operating: 11 ms half-sine shocks in Z axis 10+ve, 10-ve Non-Operating: 11 ms half-sine shocks in Z axis 10+ve, 10-ve		5 30		g
Vibration	Operating: 0.2 g _{rms} random Non-Operating: 1 g _{rms} random	5 2		500 200	Hz

7. MECHANICAL SPECIFICATIONS

PARAMETER	CONDITIONS / DESCRIPTION
Dimensions (W x H x D)	80 x 870 x 200 mm (3.15 x 34.25 x 7.87 in)
Weight	18 kg

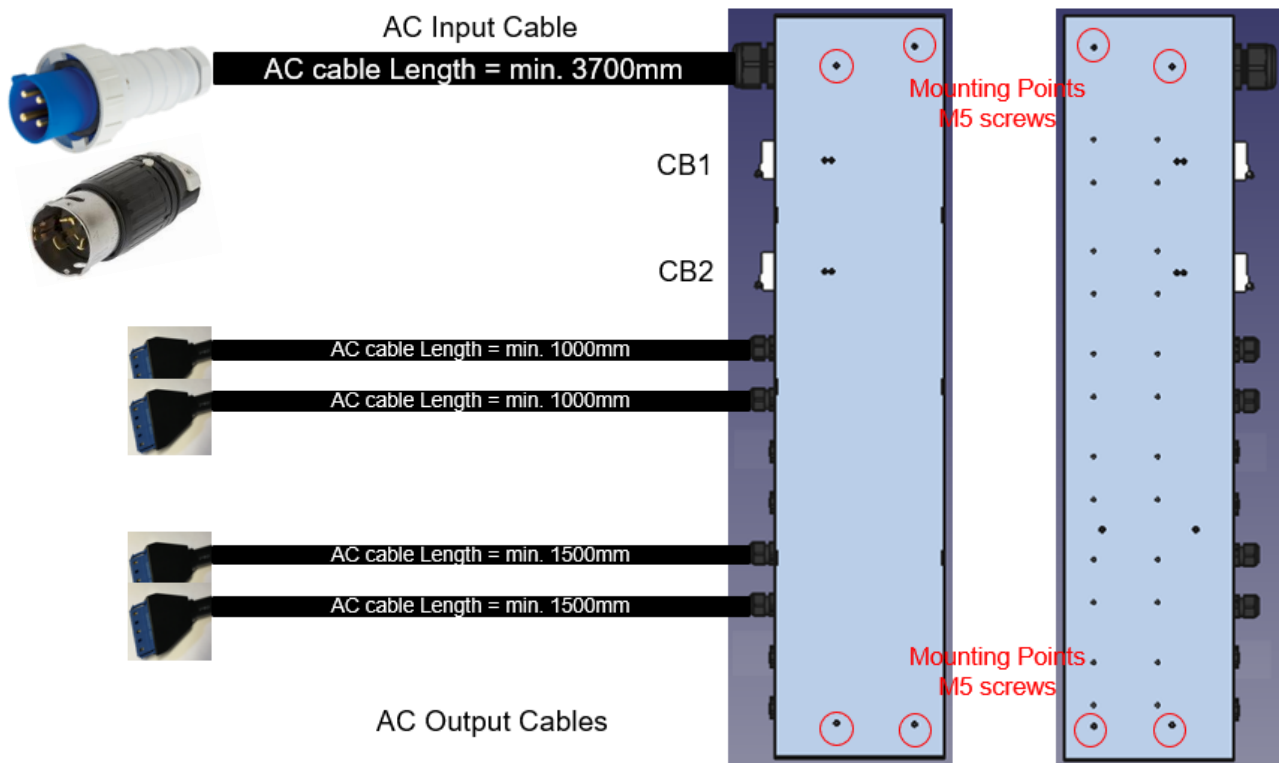


Figure 4. Dimension Drawing AC PDU (Side View) with 1 Input / 2 Output Connectors (x2)
(Connectors may vary)

8. REVISION HISTORY

REV	DESCRIPTION	PRODUCT VERSION	DATE	AUTHOR	ECO / MCO REF. NO.
001	PRELIMINARY: Initial Draft	V001	06.09.2019	GS	C94464
002	Update Voltage Max. Voltage Range	V001	20.09.2019	GS	C95933
003	Add YSU.00227 Model	V001	21.10.2019	GS	C96525
A	Release to A revision	V001	29-09-2020	VS	CO107299

For more information on these products consult: tech.support@psbel.com

NUCLEAR AND MEDICAL APPLICATIONS - Products are not designed or intended for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems.

TECHNICAL REVISIONS - The appearance of products, including safety agency certifications pictured on labels, may change depending on the date manufactured. Specifications are subject to change without notice.



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