

AC Power Distribution Unit

YSD.00288

The YSD.00288 is a 32.4 kW basic AC PDU that distributes from three-phase AC input power to multiple single-phase AC output power, embedded with Surge Protection Device (SPD).



Key Features & Benefits

- Input Voltage: 277/480 VAC 3-Phase WYE Connection
- Input Current: 50 A each Phase
- Input Connection for 5x AWG8 cable hard wiring
- Embedded with Surge Protection Device Board
- Output Voltage: 277 VAC, Single Phase
- Output Current: 9x 20 A, NEMA L7-20R Receptacle socket
- With 20 A Circuit Breaker for each socket's OCP, SC Protection
- Mechanical Dimensions (L x W x D): 86 x 2.25 x 3.44 in
2184.4 x 57.1 x 87.4 mm
- Vertical or Horizontal Installation with standard mount flange



Applications

- High power Data Center
- Blockchain and Cryptocurrency technology

1. ORDERING INFORMATION

MODEL	PART NUMBER
AC PDU	YSD.00288

2. INPUT SPECIFICATIONS

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

PARAMETER	CONDITIONS / DESCRIPTION	MIN	NOM	MAX	UNITS
Nominal AC Input Voltage	3-phase WYE		277/480		VAC
Input Voltage Range					VAC
Input Current				50	A
Input Frequency			50/60		Hz
Input Power Connectors			J1		

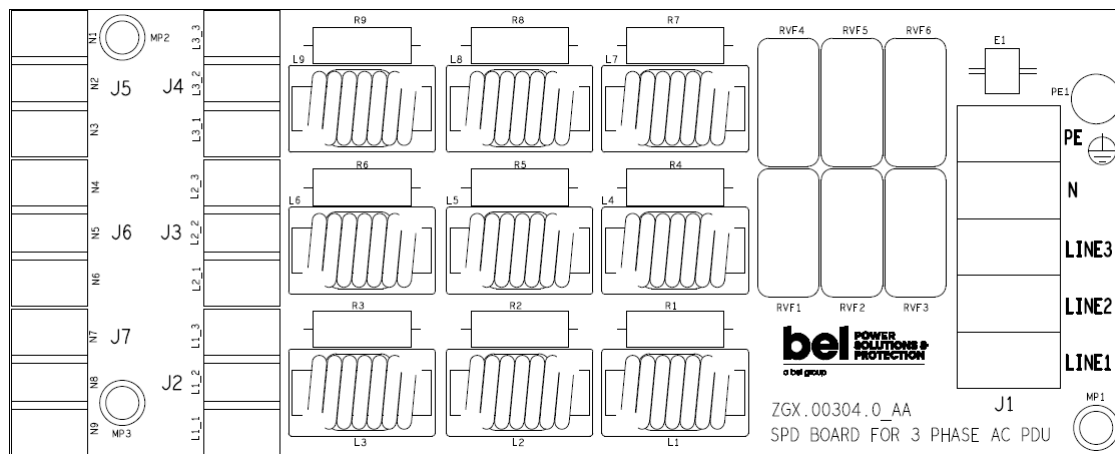


Figure 1. Input Wiring Configuration

NOTE: 8 AWG Min input wire is required for J1 – terminal L1, L2, L3, N and PE.

3. OUTPUT SPECIFICATIONS

The table below shows a summary of the PDU output electrical characteristics and interfaces:

PARAMETER	CONDITIONS / DESCRIPTION	MIN	NOM	MAX	UNITS
Output Connectors	9x Receptacle socket				
Output Voltage			277		VAC
Output Current (max)	Per receptacle		16		A
Output Power				32.4	kW
Communication Connector					

4. SAFETY, REGULATORY AND EMC SPECIFICATIONS

PARAMETER	CONDITIONS / DESCRIPTION	MIN	NOM	MAX	UNITS
Agency Approvals	Approved to the latest revision of the following standards: CSA62368-1, ANSI/UL62368-1; IEC62368-1				
Insulation	Input (L1/L2/L3/N) to case (PE)		1500		VAC
	Output (L/N) to case (PE)		1500		

5. ENVIRONMENTAL SPECIFICATIONS

PARAMETER	CONDITIONS / DESCRIPTION	MIN	NOM	MAX	UNITS
Altitude				4000	m ASL
Operating Ambient Temperature		0		+45	°C
Storage Temperature		-40		+70	°C
Relative Humidity	Non-condescending	10		95	% RH

6. CONNECTORS & PIN ALLOCATION

Mating CONNECTOR	MANUFACTURER	PART NUMBER	WIRE GAUGE
CR1 to CR9	Hubbell	HBL2331	Min. AWG #14
CR1 to CR9	Rong Kuang	WJ-8325	Min. AWG #14
CR1 to CR9	XUANHUA	XH109	Min. AWG #14

Input	SIGNAL NAME	DESCRIPTION
<i>Input terminal block (J1)</i>		
J1-1	Line1	Three phase AC Input Line1
J1-2	Line2	Three phase AC Input Line2
J1-3	Line3	Three phase AC Input Line3
J1-4	Neutral	Three phase AC Input Neutral
J1-5		Three phase AC Input Earth.
<i>Output Receptacle</i>		
CR1	--	Single phase Output 1
CR2	--	Single phase Output 2
CR3	--	Single phase Output 3
CR4	--	Single phase Output 4
CR5	--	Single phase Output 5
CR6	--	Single phase Output 6
CR7	--	Single phase Output 7
CR8	--	Single phase Output 8
CR9 (close to PWB assembly)	--	Single phase Output 9

Figure 4. Connector

PARAMETER	CONDITIONS / DESCRIPTION	MIN	NOM	MAX	UNITS
Dimensions (L x W x D)			86 x 2.25 x 3.44		in
			2184.4 x 57.1 x 87.4		mm

Figure 2. Mechanical Dimensions of AC PDU (YSD.00288)

Figure 3. Mechanical Dimensions of Mounting Bracket



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