

PDUAC3U SERIES

AC POWER DISTRIBUTION UNITS

3 phase input - single phase output

DESCRIPTION

UNIPOWER's PDUAC3U Series AC power distribution units accept a 3-phase input and provide single phase outputs that are distributed from the phases to ensure load balance on the source. They provide AC distribution and overload protection for up to 12 load circuits distributed through field wireable terminal blocks.

There are 3 basic configurations operating from nominal 120VAC, 208VAC or 230VAC outputs respectively. Each of these is available with either 4, 8 or 12 2-pole load circuit breakers rated at 25A.

Model with and without input surge protection are available.

These panels are only 3RU high and are supplied with brackets that allow mounting in a 19" frame. They are incorporated into several of the pre-configured systems.

FEATURES

- ◆ Load Balancing on 3-Phase Source
- ◆ 3RU Rack Height
- ◆ 19" Rack-Mounting
- ◆ Mates with UNIPOWER rectifier systems
- ◆ Terminal Block Connections
- ◆ 3 Phase Input - Single Phase Output
- ◆ 120VAC, 208VAC or 230VAC Output

THREE YEAR WARRANTY

SAFETY CERTIFICATIONS

UL60950-1 2nd Edition
 CSA22.2, No. 60950-1 2nd Edition
 EN60950-1 2nd Edition



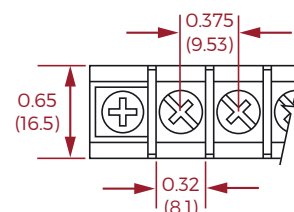
MODEL NUMBERS

MODEL NUMBER	SURGE PROTECTION	NOMINAL AC INPUT	NOMINAL AC OUTPUT	OUTPUTS ¹	
PDUAC3U-120-04	NO	120/208VAC 3-phase 4 wire + GND	120VAC Line-Neutral	4 x 25A	
PDUAC3U-120-08				8 x 25A	
PDUAC3U-120-12				12 x 25A	
PDUAC3U-208-04		NO	120/208VAC 3-phase 4 wire + GND	208VAC Line-Line	4 x 25A
PDUAC3U-208-08					8 x 25A
PDUAC3U-208-12					12 x 25A
PDUAC3U-230-04		NO	230/400VAC 3-phase 4 wire + GND	230VAC Line-Neutral	4 x 25A
PDUAC3U-230-08					8 x 25A
PDUAC3U-230-12					12 x 25A
PDUAC3U-120-04-SP	YES	120/208VAC 3-phase 4 wire + GND	120VAC Line-Neutral	4 x 25A	
PDUAC3U-120-08-SP				8 x 25A	
PDUAC3U-120-12-SP				12 x 25A	
PDUAC3U-208-04-SP		YES	120/208VAC 3-phase 4 wire + GND	208VAC Line-Line	4 x 25A
PDUAC3U-208-08-SP					8 x 25A
PDUAC3U-208-12-SP					12 x 25A
PDUAC3U-230-04-SP		YES	230/400VAC 3-phase 4 wire + GND	230VAC Line-Neutral	4 x 25A
PDUAC3U-230-08-SP					8 x 25A
PDUAC3U-230-12-SP					12 x 25A

Notes:

1. Alternative ratings are available, consult factory.

OUTPUT TERMINAL DETAIL



SPECIFICATIONS

Typical at Nominal Line, Full Load and 25°C Unless Otherwise Noted

INPUT/OUTPUT

Input Voltage.....	3-phase, 120/208 or 230/400VAC, 4 wire & GND
Input Current.....	100A Max. per phase
Load Circuit Breakers	
-04.....	4 x 25A
-08.....	8 x 25A
-12.....	12 x 25A
Output Voltage Range	
-120.....	.85-132VAC
-208.....	.180-264VAC
-230.....	.180-264VAC
Frequency.....	.47-63Hz

REGULATORY

Safety Certifications.....	UL60950-1, CSA22.2 No. 60950-1 2nd Ed. EN60950-1 2nd Ed.
Line Conducted Emissions.....	FCC20780 pt.15J Curve A EN55022 Class A
Fast Transient Immunity.....	EN61000-4-4
Surge Immunity.....	EN61000-4-5

ENVIRONMENTAL

Operating Temp. Range.....	-20°C to 50°C
Storage Temp. Range.....	-40°C to +85°C
Humidity.....	0% to 90%, Non-Condensing

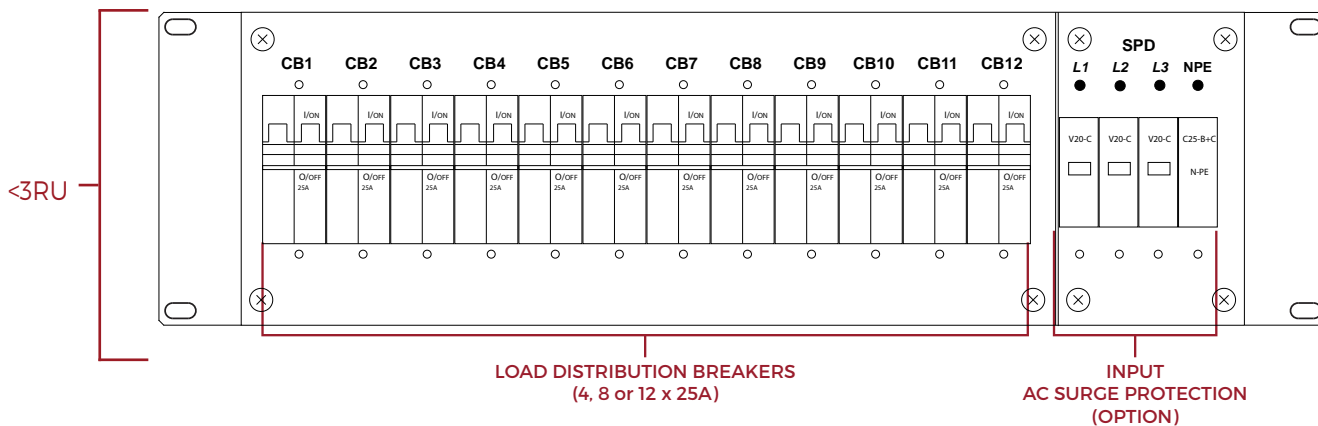
PHYSICAL SPECIFICATIONS

Case Material/Finish.....	Steel/Black Powder Coat
Dimensions, Inches (mm).....	5.1h x 16.75w x 11.5d (43.2 x 425.5 x 292.1)
Rack Mounting.....	19" 3U High
Weight.....	23lbs (10.5Kg)

FIELD WIRING CONNECTIONS

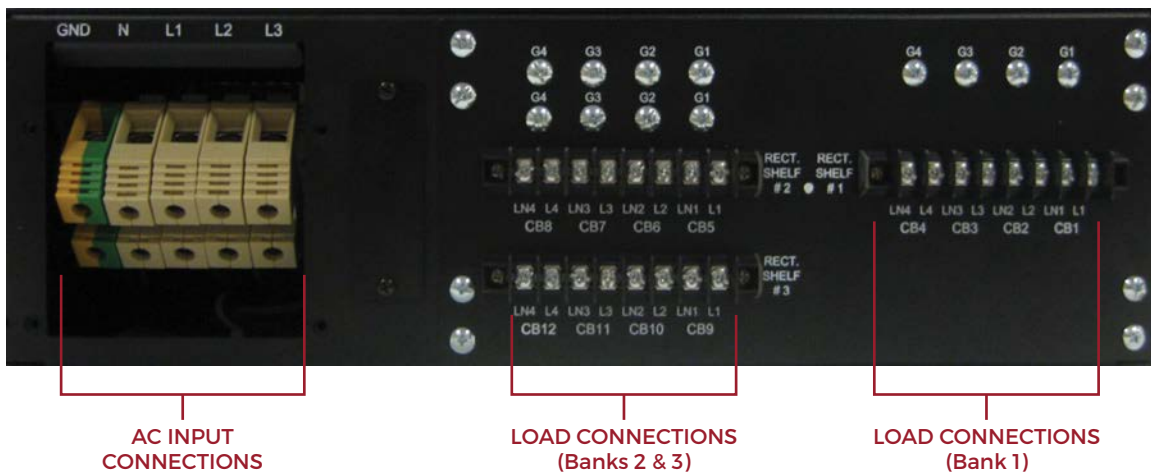
Input (L1, L2, L3, N, GND).....	Cable Compression, #2AWG max.
Output (L & LN).....	No. 6-32 Screws
Output (Ground).....	No. 8-32 Screws

FRONT VIEW



REAR VIEW

(safety cover removed)



ALL DIMENSIONS IN INCHES (mm).

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