

### AC Power Distribution Assembly



#### Product Highlights:

- Efficient AC Power Distribution
- Wide Input/Output configurations in 3U & 6U sizes
- Status LED indicators for Input/Outputs
- Individual Breakers; Internal Power Contactors (Option)
- Input AC Current limiting (Option)
- Over-Temperature Audible & Visual Alarm Indication
- Rugged Severe Environment Applications
- Mil-Std-810 Environments
- 0°C to +50°C ambient operating temperature

PDU-101 shown above

General Specifications					
	PDU-101 3U 10 I/O	PDU-102 3U 12 I/O	PDU-103 6U 18 I/O	PDU-104 3U 12 I/O	PDU-105 6U 16 I/O
Input Voltage(VAC)	92-138	92-138	92-138	92-253	92-253
Input Source	1Ø (20A brkr)	1Ø (20A brkr)	1Ø (20A brkr)	1Ø (20A brkr)	1Ø (20A brkr)
Frequency Range(Hz)	47-63	47-63	47-63	47-63	47-63
Output Voltage(VAC)	92-138, 1Ø	92-138, 1Ø	92-138, 1Ø	92-253, 1Ø	92-253, 1Ø

Electrical Specifications					
	PDU-101	PDU-102	PDU-103	PDU-104	PDU-105
Output Ckt Breakers (Quantity & Current)	8 Output, 10A	8 Output, 10A	16 Output, 10A	12 Output, 10A	18 Output, 10A
Outputs & Auxiliary Options (qty)	1 Fan, 1 Remote, 1 Aux. See factory	2 Fans, 1 Remote, 1 Aux. See factory	See factory	See factory	See factory
Fan Surge Current	20A , 20mS	20A , 20mS	20A , 20mS	20A , 20mS	20A , 20mS
Indicator LED status	1 ACin, 8 ACout	1 ACin, 12 ACout	2 ACin,17 ACout	1 ACin,12 ACout	1 ACin,16 ACout
Inrush Current Limit	< 300% (lin)	< 300% (lin)	< 300% (lin)	< 300% (lin)	< 300% (lin)
Trip Delay (MIL-PRF-39019D curve B)	Standard	Standard	Standard	Standard	Standard
Over-Temp. Alarm	Standard	Standard	3 LED/Outputs	Standard	Standard
Isolation (5mA max.)	> 100MΩ @ 1000VDC, Input to Output & Input to Case; > 100MΩ @ 500VDC Output(s) to Case				
EMI	Mil-Std-461D, CE101CE102 on input; EMI shielding provisions for minimum attenuation of 20dB 10kHz to 100KHz and 40db 100kHz to 1GHz				
Output Power	25kW	25kW	25kW	30kW	35kW

Temperature Specifications	
Operating Temperature (maximum):	0°C to +50°C Ambient
Storage Temperature	-40°C to +71°C
Temperature Coefficient	0.02%/°C, 0°C to +50°C

Note: Optional Input/Output configurations and Environmental Stress Screening, also available. Please consult factory for details.



Arnold Magnetics Corporation, 841 Avenida Acaso, Camarillo, Ca 93012  
 Phone: 805/484-4221 Fax: 805/484-4113 Website: [www.amcpower.com](http://www.amcpower.com)

Note: Specifications subject to change without notice. 02/21/20

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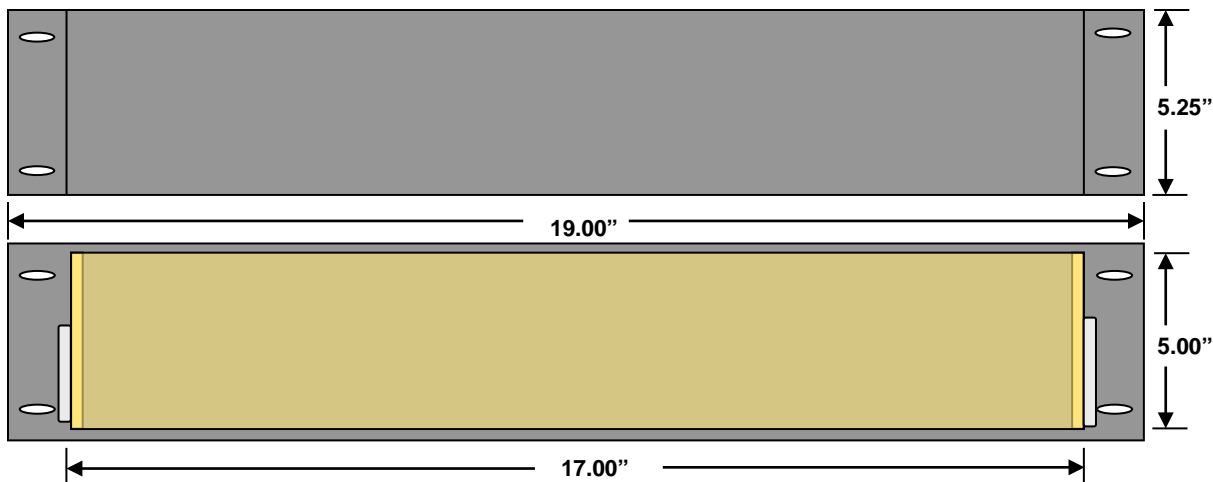
# PDU Series Up to 40kW

Environmental Specifications	
Pressure-Altitude	Per MIL-STD-810F, Method 500.4, Procedure I and II
High Temperature	Per MIL-STD-810F, Method 501.4, Procedure I and II
Low Temperature	Per MIL-STD-810F, Method 502.4, Procedure I
Humidity	Per MIL-STD-810F, Method 507.4, Procedure I
Fungus	Per Mil-Std-810F, Method 508.5, Procedure I
Salt Fog	Per Mil-Std-810F, Method 509.4, Procedure I
Sand and Dust	Per Mil-Std-810F, Method 510.4, Procedure I and II
Explosive Atmosphere	Per Mil-Std-810F, Method 511.4, Procedure I
Acceleration	Per MIL-STD-810F, Method 513.5, Procedure I and II
Vibration	Per MIL-STD-167, Type 1 4Hz to 25Hz @ 0.1P-P; 5 min. dwell @ 1Hz increments 4Hz to 15Hz @ 0.06 P-P; 16Hz-25Hz @ 0.04 P-P
Shock	Per MIL-STD-901D, Grade B

Physical Characteristics	
Maximum Case Size (excl. handles & slides)	<b>3U:</b> 5.25"H x 17.00"W x 20.00"D; <b>6U:</b> 10.47"H x 17.00"W x 20.00"D
Cooling Method	Natural Convection Cooled
Enclosure Finish	Gray per FED-STD-595, Naval 26307 color
Chassis Finish	Clear Iridite per Mil-C-5541, Type II Class 1A
Input/Output Connectors and Terminations	Circular MIL grade J1, J2, etc. typical (Pin-out Assignment Table I & II)
Mounting: EIA 310 Rack Mounting w/ Slides	EIA 310 Rack Mounting w/ Slides
Weight	3U – 20 lbs., 6U -30lbs, Typical (Pending actual configuration)

Outline and Mounting:

*Example shown below is PDU-101*



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# ***PDU Series*** Up to 40kW

## Connector & Breaker Assignments:

<b>Table I. PDU-101 AC OUTPUTS</b>			
Mil-D38999 Series Connectors			
Conn	Breaker	Conn	Breaker
J2	CB2	J3	CB3
J4	CB4	J5	CB5
J6	CB6	J7	CB7
J8	CB8	J9	CB9
J10	CB10	J11	CB11
J12	CB12	J13	CB13
J14	CB14		

<b>Table II. PDU-101 AC INPUT</b>			
Mil-D38999 Series Connectors			
Conn	Breaker	Conn	Breaker
J1	AC Input 1		

- Notes: 1) Above Dimensions and tolerance per ASME Y14.5-2009  
 2) Tolerance .xx =  $\pm 0.03$ , xxx =  $\pm 0.010$   
 3) Consult Factory for modified connector and pinout requirements.

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