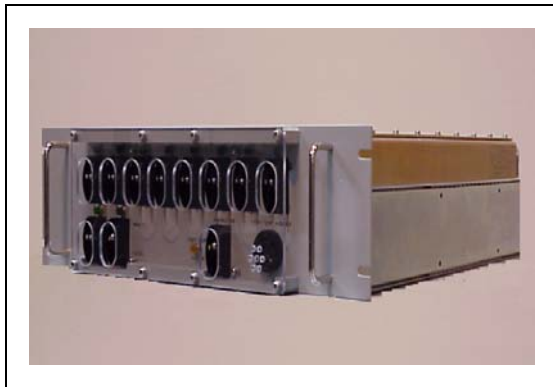


PDU Series Up to 40KVA

Power Distribution Unit



Product Highlights:

- Efficient AC-AC Power Distribution
- Wide Input/Output configurations in 3U & 6U sizes
- Status LED indicators for Input/Outputs options
- Individual Breakers; Internal Power Contactor options
- Input AC Inrush Control option
- Over-Temperature Audible & Visual Alarm Indication
- Control Interface for Remote Operation option
- Rugged Military Aircraft and Shipboard Applications
- Mil-Std-810 Environments
- 0°C to +50°C max. ambient operating temperature

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	92-138VAC	92-138VAC	92-138VAC	92-253VAC	92-253VAC
Input Source	1Ø (20A brkr)	1Ø (20A brkr)	1Ø (20A brkr)	1Ø (20A brkr)	1Ø (20A brkr)
Frequency Range	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz
Output Voltage	92-138VAC	92-138VAC	92-138VAC	92-253VAC	92-253VAC
Output Power	25KVA	25KVA	25KVA	30KVA	35KVA

Electrical Specifications

	PDU-101	PDU-102	PDU-103	PDU-104	PDU-105
Switched Ckt Breakers (Quantity & Current)	8 Output, 10A	12 Output, 10A	16 Output, 10A	12 Output, 10A	18 Output, 10A
Input Breaker Up to 50A	Consult Factory	Consult Factory	Consult Factory	Consult Factory	Consult Factory
Indicator LED status	1 ACin, 8 ACout	1 ACin, 12 ACout	2 ACin, 17ACout	ACin, 12 ACout	ACin, 18 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	EMI gasket seal and shielding provisions for maximum attenuation.				

Temperature Specifications

Operating Temperature Range (maximum)	0°C to +50°C Ambient
Baseplate Operating Temperature Option (maximum)	-25°C to +71°C
Storage Temperature	-40°C to +71°C
Temperature Coefficient	0.02%/°C

Note: Other output selections and Environmental Stress Screening also available. Please consult factory for details.



Arnold Magnetics Corporation, 841 Avenida Acaso, Camarillo, Ca 93012
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Note: Specifications subject to change without notice.

Last Updated: 09/07/06

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PDU Series Up to 40KVA

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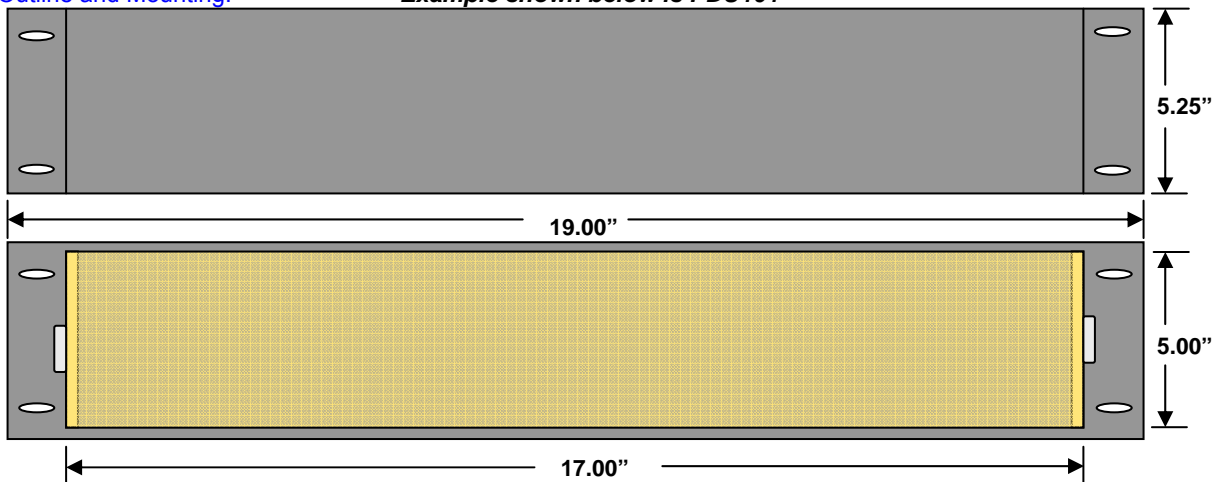
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Environmental Specifications	
Pressure-Altitude	Per MIL-STD-810F, Method 500.4, Procedure I and II
High Temperature	Per MIL-STD-810F, Method 501.4, Procedure I and II
Low Temperature	Per MIL-STD-810F, Method 502.4, Procedure I
Humidity	Per MIL-STD-810F, 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)	3U: 5.25"H x 17.00"W x 20.00"D; 6U: 10.47"H x 17.00"W x 20.00"D
Cooling Method	Conduction cooled through front panel & case
Conformal Coating	Clear HumiSeal 1A 20
Enclosure Finish	Gray per FED-STD-595, Naval 26307 color
Baseplate Finish	Gold Irridite Mil-C-5541E, 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: < 30 lbs. typical; 6U: < 50 lbs. typical

Outline and Mounting:

Example shown below is PDU101



- Notes: 1) Above Dimensions and tolerance per ANSI-STD-14.5
 2) Tolerance .xx = 0.03, xxx = 0.005



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Connector & Breaker Assignments:

Table I. PDU101 AC OUTPUTS			
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		

Table II. PDU101 AC INPUT			
Mil-D38999 Series Connectors			
Conn	Breaker	Conn	Breaker
J1	AC Input 1		

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