PDU1109 POWER DISTRIBUTION UNIT STANDARD 20KVA/50KVA/100KVA SCALABLE AC-AC ISOLATION

Astrodyne TDI's new power distribution series is a standard AC-AC scalable PDU platform solution with isolated secondary outputs to meet stringent requirements including IEC60601 and SEMI S22. This cabinet-type PDU product platform offers considerable flexibility, providing three power ranges: 20KVA, 50KVA, and 100KVA. Integral features include EMO, EMI filtering, voltage surge protection, and overcurrent protection on the input and individual outputs.

MAIN CHARACTERISTICS:

- ✓ IEC60601 and SEMI S22
- ✓ Cabinet Style Modular Design
- ✓ On/Off Switch
- ✓ Input EMI/EMC Filter
- ✓ Emergency Off (EMO)
- ✓ Necessary Circuit Protections

BENEFITS

ISOLATION TRANSFORMER

The standard scalable PDU product platform consists of an AC input connected to a multitap isolation transformer to reduce transients and harmonics.

UNIVERSAL INPUT

The multitap primary allows this unit to work with most global electrical utilities. The input is connected through a terminal block, and the outputs are provided through terminal blocks, NEMA sockets, and IEC receptacles.



FEATURES

1/24

AC INPUT VOLTAGE RANGE Step Up: 200/208/230/240 VAC Step Down: 380/415/460/480 VAC

OUTPUT POWER 20KVA, 50KVA, and 100KVA

AGENCY/COMPLIANCE:

IEC/UL/CSA 60601-1 IEC/UL/CSA 61010-1 SEMI S22 Conducted and Radiated Emissions CISPR 11, CISPR 22 Surge Immunity IEC61000-4-5 Level 3

PRELIMINARY - SPECIFICATIONS ARE SUBJECT TO CHANGE

Alcom Sing info Rivin Tel.

Singel 3 | B-2550 Kontich | Belgium | Tel. +32 (0)3 458 30 33 info@alcom.be | www.alcom.be Rivium 1e straat 52 | 2909 LE Capelle aan den IJssel | The Netherlands Tel. +31 (0)10 288 25 00 | info@alcom.nl | www.alcom.nl





PDU1109 POWER DISTRIBUTION UNIT STANDARD 20KVA/50KVA/100KVA SCALABLE AC-AC ISOLATION

PARAMETERS	PDU1109	
AC Input Voltage Range	Step Up: 200/208/230/240 VAC Step Down: 380/415/460/480 VAC	
AC Frequency	50Hz - 60Hz (+/-3Hz)	
Input Current	50A – 160A depending on power level	
Input Over-Current Pr.	Via Circuit Breaker (CB)	
Power Factor	>90%	
Input Circuit Breaker	Variable	
Operating Temperature	10° to +40°C	
Storage Temperature*	Convection / Forced Air	
Operating Humidity*	-20°C to +80°C	
Available Output Voltages	See Table 1	
Maximum Output Current	See Table 1	
Output Power	See Table 1	
Load Regulation	2% Typical	
Efficiency	95% Typical	
No. of Outputs	Configurable	
Input to Output	10 kVDC	
Input to Earth (Class I)	3000 VDC	
Output to Earth (Class I)	2600 VDC	
2 x MOPP		
Over Current/Short Circuit*	Circuit breaker rating	
Voltage Surge Protection*	Replaceable MOVs	
Over Temperature *	Thermostat 130C (20/50KVA), 140C (100KVA)	
On/Off Indicator	Output voltage present	
Emergency Machine Off (EMO)		

WWW.ASTRODYNETDI.COM • (908) 850-5088





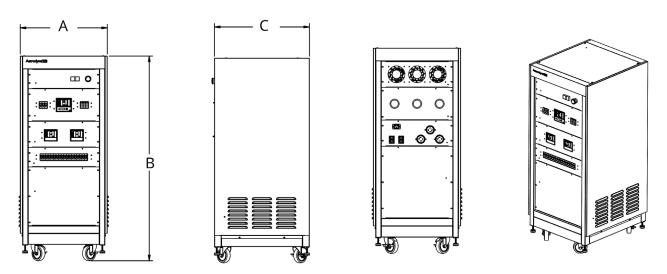
PDU1109 POWER DISTRIBUTION UNIT STANDARD 20KVA/50KVA/100KVA SCALABLE AC-AC ISOLATION

TABLE 1

Configuration		Power Rating			
		20kVA (Single Phase)	20kVA (Three Phase)	50kVA	100kVA
Step Up	Output voltage (V)	480	277	277	N/A
	Output current (A)	42	24	60	N/A
Step Down	Output voltage (V)	120	120	120	120/243
	Output current (A)	166	55	138	69/110

*These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long-term reliability. Operation under conditions other than standard operating conditions is neither warranted nor implied. Unless specified otherwise, all specifications are typical at nominal input, full load, 25°C.

MECHANICAL OUTLINE



PDU	А	В	С
PDU1109	23.3" (592)	54.9" (1395)	25.5" (648)

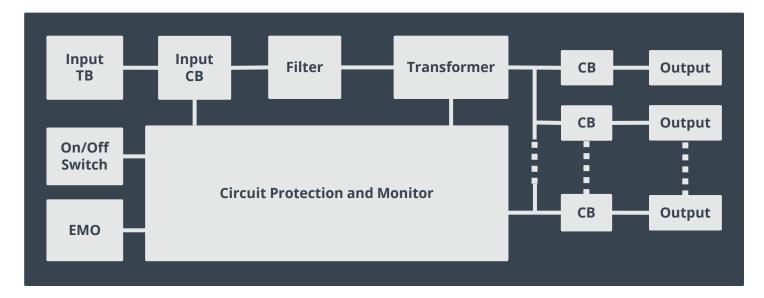




PDU1109 POWER DISTRIBUTION UNIT

STANDARD 20KVA/50KVA/100KVA SCALABLE AC-AC ISOLATION

PDU BLOCK DIAGRAM



PART NUMBER	DESCRIPTION
PDU1109-020-00	PDU, 20KVA SINGLE PHASE, AC-AC, PDU1109-020-00
PDU1109-020-01	PDU, 20KVA THREE PHASE, AC-AC, PDU1109-020-01
PDU1109-050-00	PDU, 50KVA THREE PHASE, AC-AC, PDU1109-050-00
PDU1109-100-00	PDU, 100KVA THREE PHASE, AC-AC, PDU1109-100-00

HOW TO ORDER

PDU1109-020-00

XXX = AC OUT 20KVA, 50KVA, 100KVA

SERIES



Singel 3 | B-2550 Kontich | Belgium | Tel. +32 (0)3 458 30 33 info@alcom.be | www.alcom.be

PRELIMINARY - SPECIFICATIONS ARE SUBJECT TO CHANGE

Rivium 1e straat 52 | 2909 LE Capelle aan den IJssel | The Netherlands Tel. +31 (0)10 288 25 00 | info@alcom.nl | www.alcom.nl