



POWERNET

**PRODUCT OVERVIEW
2016**

POWERNET

ADC5000 Series Power Supplies and Battery Chargers



For Applications in Wind Power, Weather Measurement, Marine, Industrial Battery Charging and DC-Supply.

230/115VAC / 12/24/48VDC – 60-240W Power Range

Temperature range -40C° ... +70C°, Selection of models below.

Custom design/OEM versions on request.

POWER SUPPLY MODELS DIN ATTACHMENT						
Type see below	Input Voltage	Output Voltage	Output Voltage Adjustment	Output Current	Power	Mechanical Dimensions (W x H x D)
ADC5623	90...264 VAC	12 VDC	10.5...15 VDC	5 A	60 W	51 x 121 x 81 mm
ADC5023	230/115 VAC	12 VDC	9...15 VDC	10 A	120 W	66 x 148 x 113 mm
ADC5323	230/115 VAC	12 VDC	9...15 VDC	20/18 A	240 W	75 x 173 x 122 mm
ADC5723	90...264 VAC	24 VDC	21...29 VDC	2.5 A	60 W	51 x 121 x 81 mm
ADC5123	230/115 VAC	24 VDC	21...29 VDC	5 A	120 W	66 x 148 x 113 mm
ADC5423	230/115 VAC	24 VDC	21...29 VDC	10 A	240 W	75 x 173 x 122 mm
ADC5823	90...264 VAC	48 VDC	45...58 VDC	1.25 A	60 W	51 x 121 x 81 mm
ADC5523	230/115 VAC	48 VDC	45...58 VDC	5 A	240 W	75 x 173 x 122 mm
RECTIFIER/CHARGER MODELS DIN ATTACHMENT						
ADC5683	90...264 VAC	13.7 VDC	10.5...15 VDC	4.4 A	60 W	51 x 121 x 81 mm
ADC5083	230/115 VAC	13.7 VDC	9...15 VDC	10 A	137 W	66 x 148 x 113 mm
ADC5383	230/115 VAC	13.7 VDC	9...15 VDC	20/18 A	274 W	75 x 173 x 122 mm
ADC5783	90...264 VAC	27.4 VDC	21...29 VDC	2.2 A	60 W	51 x 121 x 81 mm
ADC5183	230/115 VAC	27.4 VDC	21...29 VDC	5 A	137 W	66 x 148 x 113 mm
ADC5483	230/115 VAC	27.4 VDC	21...29 VDC	10 A	274 W	75 x 173 x 122 mm
ADC5883	90...264 VAC	54.8 VDC	45...58 VDC	1.1 A	60 W	51 x 121 x 81 mm
ADC5583	230/115 VAC	54.8 VDC	45...58 VDC	5 A	274 W	75 x 173 x 122 mm

ADC5000R – RUGGEDIZED VERSIONS

- PCB and component assembly coated with conformal coating
- Large components supported by additional silicone material
-> increases durability against vibration, shocks, thermal variation and humidity
- Ruggedized products typically supplied to defense customers and demanding industrial applications

POWERNET

Multi-purpose and flexible Battery Chargers, Power Supplies, Rectifiers and Converters



Industrial Battery Chargers and Power Supplies

800 - 3200W Power Range in Modules. Wide range of both AC- and DC-input voltages. Optional analog control, temperature compensation and charging algorithms. Over 100 different versions available. Easy to custom modify. Selection of models below.

POWER SUPPLIES AND BATTERY CHARGERS, TRIMMER ADJUSTABLE/ EXTERNAL 0-5VDC VOLTAGE FOR ANALOG CONTROL/ TEMPERATURE COMPENSATION

Available options: AI = Analog control, T= Temperature compensation, H= Power fail alarm, S = Slave unit

Type	Input voltage range	Nominal output voltage VDC	Voltage setting ranges and Nominal Output Current A	Max Power
ADC7480/xx	70-264VAC/ 80-369VDC	xx= 12/24/36/48/ 72/110/160/220	12(0-18)VDC-200A/ 24(0-36)VDC-127A / 36(0-54)VDC-95A/ 48(0-72)VDC-64A/ 72(0-108)VDC-42A/ 110(0-165)VDC-25A/ 160(0-230)VDC-20A/ 220(0-320)VDC-14A	3000- 3200W
ADC7520/xx	55-264VAC/ 78-340VDC	xx= 24/36/48	24(0-36)VDC-30A / 36(0-54)VDC-40A/ 48(0-72)VDC-15A/ 72(0-108)VDC-10A/ 110(0-165)VDC-7.5A	1600W
ADC4370/xx	55-264VAC/ 78-340VDC	xx= 12/24/36/48/ 72/96	12(0-18)VDC-50A/ 24(0-36)VDC-20A / 48(0-72)VDC-15A/ 72(0-108)VDC-10A/ 110(0-165)VDC-7.5A	800W

RECTIFIER MODULES, TRIMMER ADJUSTABLE/ ANALOG CONTROLLABLE

ADC7181R: 19" RACK MOUNTING; ADC7180R: DEDICATED MSR7000- SERIES RACKS (2,4 – 4,8kW)

Available options: AI = Analog control/ T= Temperature compensation

Type	Input voltage range	Nominal output voltage VDC	Voltage setting ranges and Nominal Output Current A	Max Power
ADC7181R/xx ADC7180R/xx	55-264VAC / 78-340VDC	24/36/48/ 72/96	24(0-36)VDC-30A / 36(0-54)VDC-20A/ 48(0-72)VDC-15A/ 72(0-108)VDC-10A/ 110(0-165)VDC-7.5A	800W

ROBUST IP54 ADC1100R and ADC2300R BATTERY CHARGERS/ POWER SUPPLIES

Available options: Temperature compensation, CAN Bus

Type F = external fan	Input voltage range	Nominal output voltage VDC	Voltage setting ranges and Nominal Output Current A	Max Power
ADC1100R/xxF	195-265VAC	xx=24/36/48/	24VDC-40A/ 36VDC-22A/ 48VDC – 20A	1100W
ADC2300R/xxF	195-265VAC	xx=24/36/48/	24VDC-80A/ 36VDC-53A/ 48VDC – 40A	2300W

HIGH VOLTAGE (HV) 3kW DC/DC CONVERTERS/ BATTERY CHARGERS

Available options: AI = Analog control / H= Power fail alarm/ S = Slave unit

Type	Input voltage range	Nominal output voltage VDC	Voltage setting ranges and Nominal Output Current A	Max Power
ADC7480HV/xxx	70-264VAC/ 70-369VDC	xxx=220/280/560/ 900	220(0-320)VDC-14A / 280(0-420)VDC-10A/ 560(0-840)VDC-5A/ 900(0-900)VDC-3.5A	3200W

POWERNET

ADA-Series Back Up Power Supplies



DC UPS Back Up Power Supplies

For applications in security systems, building automation, wind power, industrial- and telecom auxiliary DC-power supply.

60 - 250W, easy to install, sturdy steel construction.

Easy to custom modify (eg. IP56 versions) .

Selection of models below.

POWER SUPPLIES WITH BATTERY BACK-UP – WALL INSTALLATION

Type	Available x selection codes (others on request)	Input Voltage	Nominal Output Voltage	Output Current	Battery Capacity
*) See x below					
ADA473x	x = 0	230 VAC	12 VDC	10 A	14 Ah
ADA474x	x = 0, 2, 3	230 VAC	24 VDC	5 A	7 Ah
ADA498x	x = 0, 2, 3	230 VAC	24 VDC	10 A	7 Ah
ADA457x	On request	230 VAC	48 VDC	2.5 A	2 Ah
ADA499x	On request	230 VAC	48 VDC	5 A	2 Ah
ADA742x	x = 0	90...264 VAC	12 VDC	5 A	14 Ah
ADA743x	x = 0, 3	90...264 VAC	24 VDC	2.5 A	7 Ah
ADA744x	x = 2	90...264 VAC	48 VDC	1.25 A	2 Ah
ADA713x	x = 0	230 VAC	24 VDC	10 A	14 Ah
ADA714x	x = 0, 1	230 VAC	48 VDC	5 A	7 Ah

ADDITIONAL EXTERNAL BATTERY UNITS FOR WALL INSTALLATION

Type	Available x selection codes (others on request)	Input Voltage	Nominal Output Voltage	Output Current	Battery Capacity
*) See x below					
EXU708x	On request	External battery unit 12VDC 28Ah			
EXU709x	On request	External battery unit 24VDC 14Ah			
EXU710x	On request	External battery unit 48VDC 7Ah			

x selection code: 0 = with batteries / without tamper switch

1 = without batteries / without tamper switch

2 = with batteries / with tamper switch

3 = without batteries / with tamper switch

POWER SUPPLIES WITH BATTERY BACK-UP – 19" RACK INSTALLATION

Type	Available x selection codes (others on request)	Input Voltage	Nominal Output Voltage	Output Current	Battery Capacity
*) See x below					
ADA713x	x = 0	230 VAC	24 VDC	10 A	14 Ah
ADA714x	x = 0, 1	230 VAC	48 VDC	5 A	7 Ah



Scalable power range 1,5-30kVA. DC supply versions 24,48/60, 110/125, 220VDC. Hot swappable modules, n+1 redundancy.

INVERTER MODULES 2U, 48VDC							
Type	DC input Range	Nominal AC output	Nominal Power	Cooling	Dimensions Without handles	Weight	
DAC62434FR	40...72VDC	230VAC, 50Hz	1500VA/1200W	Forced, fan	220 x 64 x 409 mm	4,4kg	
7.5kVA and 30 kVA STATIC SWITCH MODULES + MANUAL BYPASS							
Type	Description - plug in static switch modules						
BPU69230FR	External static switch, 7500VA 230VAC, 220mm x 64mm x 409mm module, weight 3.3kg						
BPU69430FR	External static switch, 30kVA 230VAC, 220 x 131 x 400 mm module, weight 8.4 kg						
MBP68300	Sub-rack including manual bypass and position for 7.5kVA static switch						
MBP68400	Sub-rack including manual bypass and position for 30kVA static switch						
MBP68300	Sub-rack including manual bypass and position for 7.5kVA static switch						
INVERTER MODULES 6U: 24VDC, 48/60VDC, 110/125VDC, 220VDC							
Type	Nominal DC input	DC input Range	Nominal AC output	Nominal Power	Cooling	Dimensions Without handles	Weight
DAC62232VF	24VDC	20...32VDC	230VAC, 50Hz	1200VA/800W	Forced, fan	14TE x 6U x 372mm	4 kg
DAC62234VF	48/60VDC	40...72VDC	230VAC, 50Hz	1200VA/1200W	Forced, fan	14TE x 6U x 372mm	4 kg
DAC62235VF	110/125VDC	88...150VDC	230VAC, 50Hz	1200VA/1200W	Forced, fan	14TE x 6U x 372mm	4 kg
DAC62236VF	220/230VDC	178...275VDC	230VAC, 50Hz	1200VA/1200W	Forced, fan	14TE x 6U x 372mm	4 kg
STATIC SWITCH + MANUAL BYPASS							
Type			Description				
BPU69130VF			External static switch, 6000VA 230VAC, 14TE x 6U x 372mm module				
MSR7990+BPU69130VF			External static switch, 6000VA 230VAC, 19" x 2U x 372mm				
BPU69430FR + MBP68400			External static switch and manual bypass, 30kVA 230VAC, 19" x 3U x 480mm				
19" 2U MECHANICAL ADAPTERS FOR HORIZONTAL INSTALLATION							
MSR7990+ DAC type			1200VA fan cooled inverter in 19" 2U installation				

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RAIL APPROVED POWER SUPPLY, BATTERY CHARGER AND CONVERTER MODULES



Rail Approved Modules - ADC9000-series

AC/DC 500W power supplies and chargers (230VAC/24VDC)

DC/DC 500W converters (24VDC/36VDC/110VDC - 24VDC)

DC/DC 1kW converters (24VDC/36VDC/110VDC - 24VDC)

DC/DC 1,5kW converters 110VDC/24VDC

AC/DC 3kW 3phase 400VAC/24V, 3-phase 400VAC/36V,

AC/DC 3KW 3phase 400VAC/110VDC

DC/DC 3,2kW converters 110VDC/24VDC

Module power 500-3200W,

6,4k, 9,6, or 12,8KW power with parallel connected units.

Light weight, compact design, IP20 enclosures.

Modern switchmode power supply topology.

CAN Bus Communication option.

Rail approved according to EN50155.

19" rack installation option for 3kW modules.

Operating temperature range: T2 -40°C...+55°C.

Project specific adaptations.

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RAIL APPROVED BATTERY MANAGEMENT SYSTEMS, 6 -20KW, IP20 – IP65



Rail Approved Battery Charging/PSU Systems

High efficiency over the whole power range due to flexible internal power management and high frequency switchmode topology.

High redundancy and thermal management.

Up to four independent rectifiers blocks in parallel which can be controlled separately.

Customized charging algorithms & temperature compensated charging
CAN bus interface, Integrated controller.

Integrated battery current measurement and series diode for system supply.

Fully Independent operation and battery management in case of CAN-BUS failure or VCU offline.

IP65 enclosures for rooftop or underbelly installations.

2x 19" rack width for IP20 installations.

Customized mechanics based on modular design.

Operating temperature range: T2 -40°C...+55°C.



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