

ADC7480 SERIES

Microprocessor Controlled Battery Chargers and Power Supplies



3200W / 0-320VDC

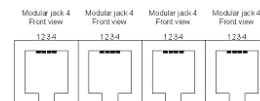
Powernet ADC7480 series is a high power, light weight power supply series using modern switching technology. All units can be used as a power supply or constant voltage battery charger. The output voltage and output current can be adjusted by user from zero to maximum value either by front panel trimmer or by optional 0-5V analog control. The equipment is small, light and meets the safety and EMC requirements established by the EU. You will be satisfied with the reliable and easy to use ADC7480.

POWER SUPPLIES AND CONSTANT VOLTAGE CHARGERS, TRIMMER ADJUSTMENT							
Type (Refer curves next page)	Input voltage (VAC or VDC) *)	Nominal output voltage	Voltage setting range	Max output current	Current limit setting	Max power	Installation / dimensions (Width x Height x Depth, mm)
ADC7480/12	50...280 V	12 VDC	0-18 VDC	200 A	0-200A	3200W	Wall/Bench / 400x250x80mm
ADC7480/24	50...280 V	24 VDC	0-36 VDC	127 A	0-127A	3200W	Wall/Bench / 400x250x80mm
ADC7480/48	50...280 V	48 VDC	0-72 VDC	55 A	0-55A	3200W	Wall/Bench / 400x250x80mm
ADC7480/110	50...280 V	110VDC	0-165 VDC	20 A	0-20A	3200W	Wall/Bench / 400x250x80mm
ADC7480/220	50...280 V	220 VDC	0-320VDC	20 A	0-20A	3200W	Wall/Bench / 400x250x80mm

*) Reduced power 50...230VAC or 50...230VDC

INTELLIGENT OPTIONAL MODELS

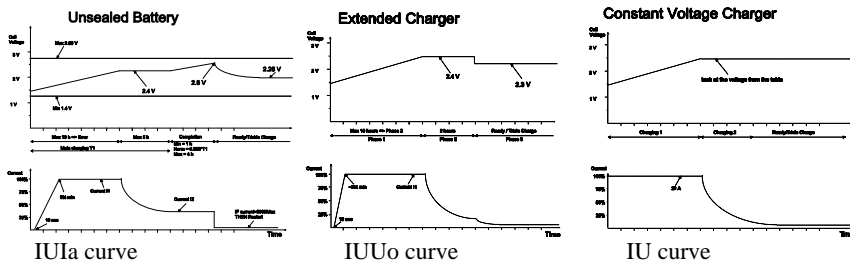
- Analog control by external 0-5VDC voltage ... Type number for example ADC7480/24A
- Master-slave connection ... Master = trimmer or analog adjustable unit
- Temperature compensation, Sense separately ... Type Slave for example ADC7480/24S
- ... No standard type numbers, details agreed



CHARGERS FOR CYCLIC BATTERY CHARGING

- Cyclic Charging algorithms
- 16 different algorithms in one unit
- More than 1000 algorithms available for typical batteries
- Customized algorithms available

Please inform voltage, charging time, battery size and type when ordering



POWERNET



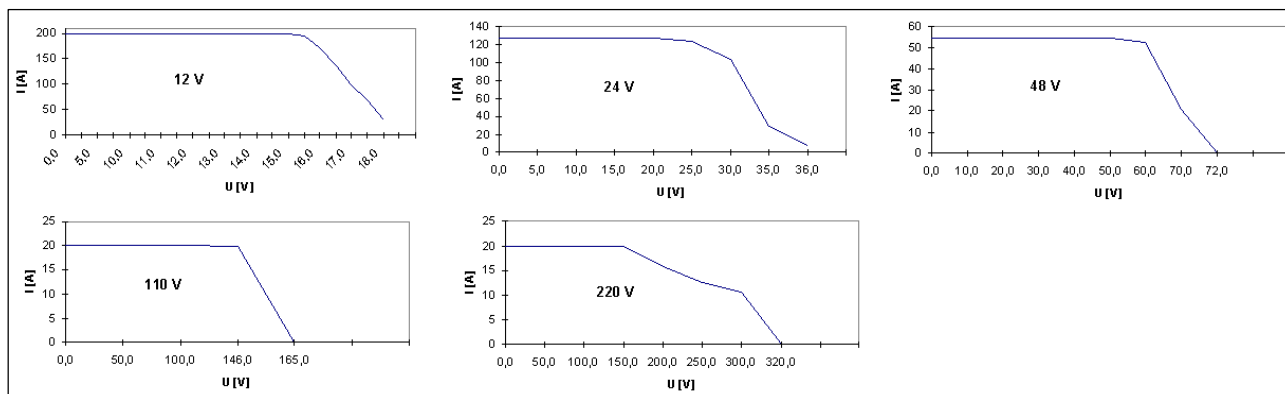
Sales & R&D: Horsmakuja 10, FIN-01300 VANTAA, Tel. +358 9 8362 830, Fax +358 9 8362 8362

Production and Service: Rautatienkatu 52, FIN-44150 ÄÄNEKOSKI, Tel. +358 14 3396 400, Fax +358 14 3396 410

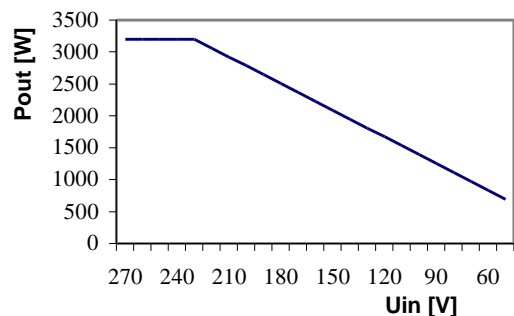
E-mail: marketing@powernet.fi, Internet: www.powernet.fi

TECHNICAL DATA

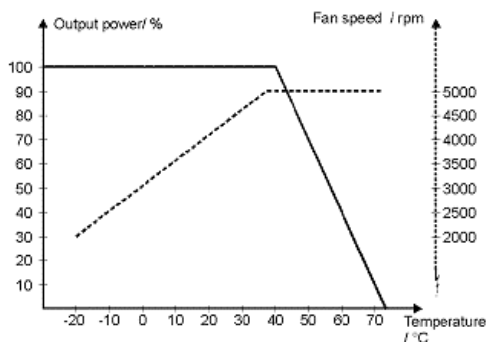
Input voltage	50-280VAC 1-phase / 50-280VDC (reduced power 50...230V)	
Efficiency	89% at full load, over 90% at 50% load	
Input current	16A (max)	
Frequency	47-63 Hz	
Power Factor	>0.95	
Inrush current	Soft start	
Output ripple	<200mV peak to peak	
Mechanics	Wall mounting, see dimensions first page	
Connectors	Input	Input power cord
	Output	Models 12V, 24V, 48V copper bus bar terminals Modes 110V, 220V 6 m ² 1.5m output cables
	Option	Options Modular connector
Enclosure	Aluminium case IP 21	
Weight	7.1 kg	
Output grounding	Floating	
Ambient temperature	-20°C...+45°C at full load, +45°C...+70°C see derating curve below	
Over temperature protection	Processor controlled	
Over current protection	Electrical current limit	
Reverse polarity protection	With fuse	
Over voltage protection		
Standards	Safety	Class I EN 60355-1:1994 + A11:1995+A1:1996+A12:1996 IEC 335-2-29:1994 EN 60355-2-29:1996 (IEC 335-2-29:1994 modified)
	EMC	EN50081-1, EN55022 Class B , EN50082-2



Nominal output voltage / current characteristics 3200W modules



Output power / input voltage derating curve



Output power and fan speed / ambient temperature