ADC7480 SERIES

Microprocessor Controlled Battery Chargers and Power Supplies

3000W / 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	70…280 V	12 VDC	0-18 VDC	200 A	0-200A	3200W	Wall/Bench / 400x250x80mm
ADC7480/24	70…280 V	24 VDC	0-36 VDC	127 A	0-127A	3200W	Wall/Bench / 400x250x80mm
ADC7480/48	70…280 V	48 VDC	0-72 VDC	55 A	0-55A	3200W	Wall/Bench / 400x250x80mm
ADC7480/110	70…280 V	110VDC	0-165 VDC	20 A	0-20A	3200W	Wall/Bench / 400x250x80mm
ADC7480/220	70…280 V	220 VDC	0-320VDC	14 A	0-14A	3200W	Wall/Bench / 400x250x80mm

*) Reduced power 70…230VAC or 70…230VDC, 3200W at 230…280V input

INTELLIGENT OPTIONAL MODELS (24V models as a type number example)

Type	Option description	Cable set included
ADC7480/24AI	Analog control by external 0-5VDC voltage. Control signal isolated from PSU input and output	1.5 m, modular connector
ADC7480/24H	Power fail relay alarm. Indicates mains fail and module fail.	1,5 m, modular connector
ADC7480/24AIH	Analog control + power fail relay	Analog + relay cables

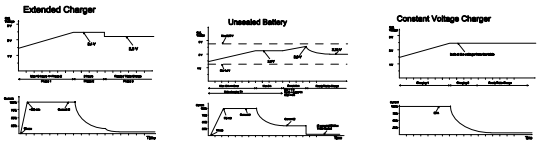
MASTER-SLAVE CONNECTION

Master units *)	Slave units
ADC7480/24 trimmer adjustment, RS-232 bus out	ADC7480/24S RS-232 control bus in and out
ADC7480/24AI analog control, RS-232 bus out	ADC7480/24SH slave unit with relay, RS-232 bus in only
Cable set for master slave connection included in slave unit type number, 0.6m modular connectors in both ends	

*) Master unit or slave with RS-232 bus output can not include the relay alarm

CUSTOMISED VERSIONS AVAILABLE

- Cyclic battery chargers including the charging algorithms
- Temperature compensation, Sense



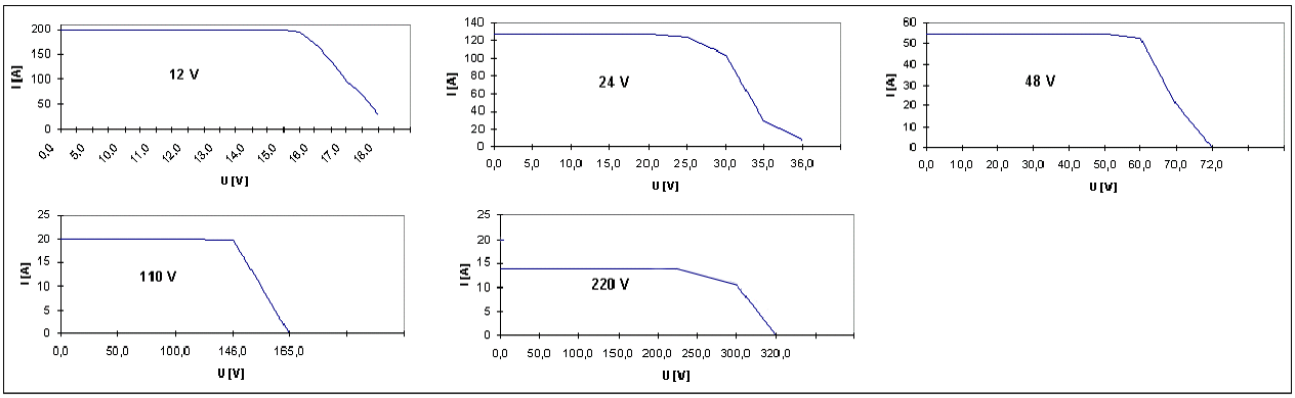
POWERNET

POWER PARTNER

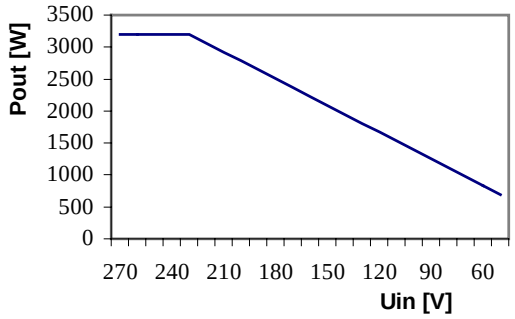
Sales & R&D: Mäkituvantie 3 H, FIN-01510 VANTAA, Tel. +358 9 8362 830, Fax +358 9 8362 8362
Production and Service: Rautatienkatu 52, FIN-44150 ÄÄNEKOSKI, Tel. +358 14 3396 400, Fax +358 14 3396 410
E-mail: marketing@powernet.fi, Internet: www.powernet.fi

TECHNICAL DATA

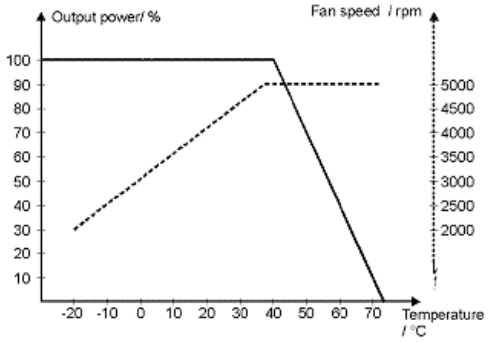
Input voltage		70-280VAC 1-phase / 70-280VDC (reduced power 70…230V)
Efficiency		89% at full load, over 90% at 50% load (230VAC input)
Input current		16A (max)
Frequency		47-63 Hz
Power Factor		>0.95
Inrush current		Soft start
Output ripple		<1% from output voltage, peak to peak
Mechanics		Wall mounting, 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 20
Weight		7.1 kg without cables
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
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 3000W modules



Output power / input voltage de rating curve



Output power and fan speed / ambient temperature