

# ADC7520 SERIES

*Microprocessor controlled battery chargers and power supplies*



## 1600W / 0-72VDC

- High power density
- Light weight 1.9kg
- Built in PFC
- Control by analog input 0-5V
- Series/parallel connection
- Master/slave connection
- EMC EN55022B
- Wall/Bench mounting

### POWER SUPPLIES AND CONSTANT VOLTAGE CHARGERS, TRIMMER ADJUSTMENT

Type (Refer curves next page)	Input voltage (*)	Nominal output voltage	Voltage setting range	Max output current	Current limit setting	Max power	Installation / dimensions (Width x Height x Depth, mm)
ADC7520/24	50...260 VAC	24 VDC	0-36 VDC	60 A	0-60 A	1600W	Wall//Bench 267x135x85
ADC7520/36	50...260 VAC	36 VDC	0-54 VDC	45 A	0-45 A	1600W	Wall//Bench 267x135x85
ADC7520/48	50...260 VAC	48 VDC	0-72 VDC	30 A	0-30 A	1600W	Wall//Bench 267x135x85

\*) Reduced power 50...200VAC  
Also DC input 50...260VDC

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

Type	Option description	Cable set included
ADC7520/24AI	Analog control by external 0-5VDC voltage. Control signal isolated from PSU input and output	1.5 m, modular connector
ADC7520/24H	Power fail relay alarm. Indicates mains fail and module fail.	1,5 m, modular connector
ADC7520/24AIH	Analog control + power fail relay	Analog + relay cables

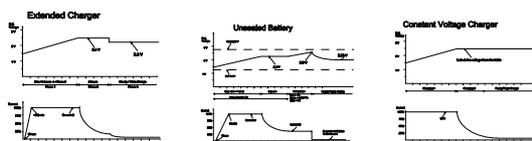
### MASTER-SLAVE CONNECTION

Master units *)	Slave unit
ADC7520/24 trimmer adjustment, RS-232 bus out	ADC7520/24S RS-232 control bus in and out
ADC7520/24AI analog control, RS-232 bus out	

Cable set for master slave connection included in slave unit type number, 0.6m modular connectors in both ends

### CUSTOMISED VERSIONS AVAILABLE

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



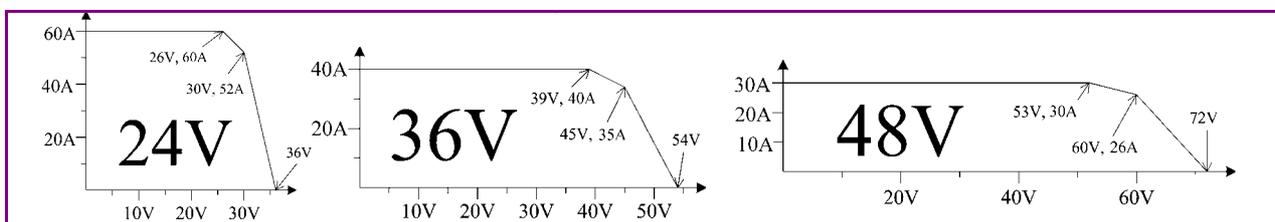
# POWERNET



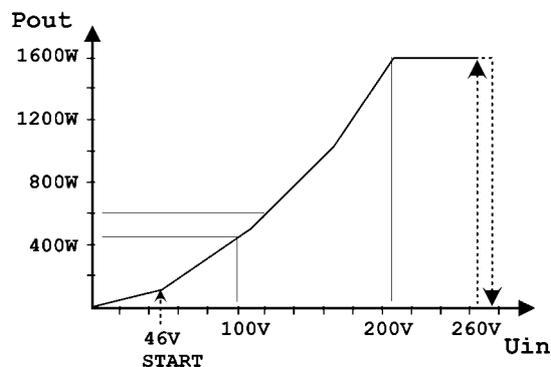
Sales & R&D: Mäkituvantie 3 H, FIN-01510 VANTAA, Tel. +358 9 8362 830, Fax +358 9 8362 8362  
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**TECHNICAL DATA**

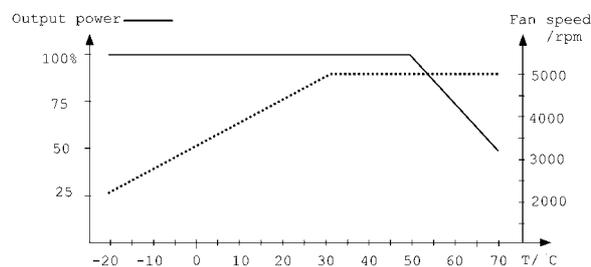
Input voltage	50...260 VAC (50...200VAC reduced power, see curve below) 50...260 VDC (50...200VDC reduced power)	
Input current	9 A	
Power factor	>0.99	
Efficiency (230VAC, 10...100% load)	> 88%	
Inrush current	<30A, cold start	
Line regulation	0.01%	
Load regulation	0.2V	
Output setting accuracy	± 0.1%	
Output ripple (f > 50Hz)	<30mVrms	
Hold up time	> 5ms	
Status LED indication	Standard models	Orange Power OK LED
	Cyclic chargers	Three color LED, red-yellow-green
Isolations	Input - chassis	1500VAC
	Input - output	3750VAC
	Output - chassis	500VAC
Standards	Safety	EN60335-2-29 +A2
	EMC	EN55022B, EN50081-1, EN50082-2
Approvals	CE marking	
Protection class	Mechanical	IP20 metal enclosure
	Electrical	Class I
Connectors	Input	Input power cord
	Output	10 m <sup>2</sup> 2m output cables
Dimensions	l x w x h	267 x 135 x 85 mm with rubber ends
Weight	1,9kg without output cables	
Mounting	Wall, bench	
Cooling	Temperature controlled fan	
Operating temperature range	Full power typically	-25°C...+40°C
	Reduced power	+40...+ 70°C, see curve below
Humidity	0...95%, non condensing	



Nominal output voltage / current characteristics 1600W models



Output power / input voltage derating curve



Output power and fan speed vs ambient temperature