

Li-ion Battery Charger

500V-10/20/40Amp

Invertek®

Features

- The charger can be connected to CMU (Cell Management Unit) in order to detect the status of battery cell to deliver the safest charging current
- Power Factor Corrected
- The universal AC input voltage from 100 to 240VAC
- The 7-segment current meter display and the 7-segment voltage meter display show the output current value and output voltage value
- Easy-to-understand LED indicators show the faults and the battery status during charging
- The wiring connection of contact relays of Cell OVP, Charger On, Charger OK and Trip show the status of the charger
- Easy "Amps" adjustment knob allows users to quick-tune the charger to pull maximum amps out of whatever it is plugged into
- User adjustable peak charge voltage allows users to adapt charger to any battery voltage from 100 to 500 volts
- Up to 20,000 watts of power from a unit
- Self regulating thermal protection
- Active variable speed fan cooling
- Adjustable absorption phase (end of charge) timer function
- Ability to enable auto restart mode
- Ability to enable timed charging mode



Specifications

Model No.	ADC-10U-5003	ADC-20U-5003	ADC-40U-5003
Input Voltage	100~240VAC / $\cos \theta > 0.95$		
Output Voltage	100~500VDC ± 1 Volt		
Charging Capacity	10A/500VDC	20A/500VDC	40A/500VDC
Frequency	50Hz/60Hz ± 2 Hz		
Output Pattern	1		
Input Current	≤ 21 A	≤ 42 A	≤ 84 A
Power Consumption	From 2.1KW (Vin=100VAC) To 5.0KW (Vin=240VAC)	From 4.2KW (Vin=100VAC) To 10KW (Vin=240VAC)	From 8.4KW (Vin=100VAC) To 20KW (Vin=240VAC)
Output Current	0~10A (10A is max. At Vout=500VDC)	0~20A (20A is max. at Vout=500VDC)	0~40A (40A is max. at Vout=500VDC)
Power Efficiency	$\geq 85\sim 87\%$		
Charging Curve Type	2 Stage (Bulk Charge, Absorption Charge)		
Operation Temperature	$-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$		
Storage Temperature	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$		
Protection Feature	Over Voltage Protection, Over Current Protection, Over Temperature Protection, Fan Damaged, BTS-Over Temperature Protection		
Protection Options	Connectable to Cell Management Unit (CMU)		
Dimension (H x W x D) mm	220 x 260 x 420	270 x 260 x 420	270 x 360 x 420
Weight (Kgs)	10	12	18