

ADC2300R SERIES

Robust Battery Charger for use in harsh environment



Features

- Designed for harsh environments
- IP 54 (IP66 optional)
- External fan cooling of unit
- New and Easy UI with high intensity LEDs
- Multiple charging algorithms
- Intelligent options
- Output power 2300W
- Voltage versions: 24, 36 and 48V

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Intelligent options

- Temperature & sense compensation
- Relay
- IO out/in
- External Led
- CAN bus

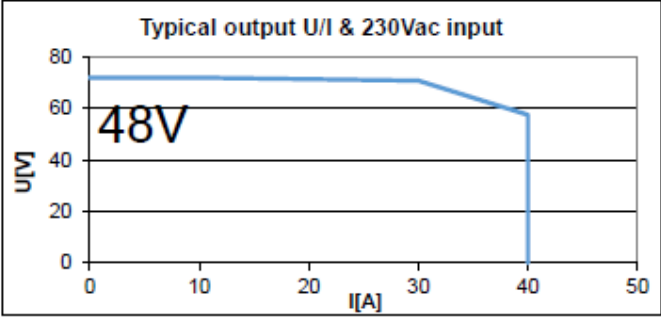
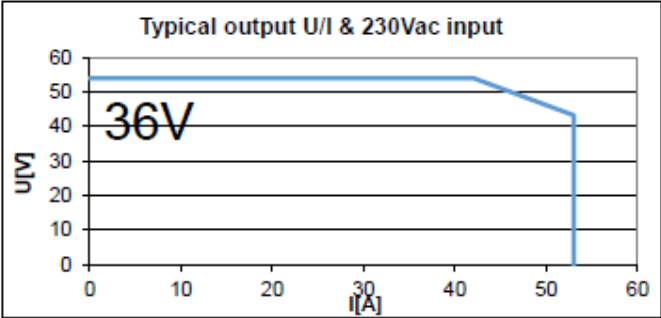
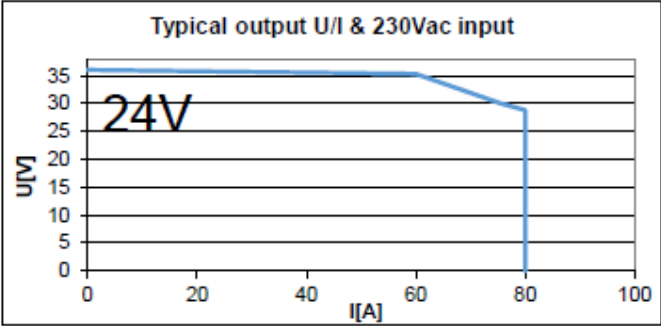
Technical data

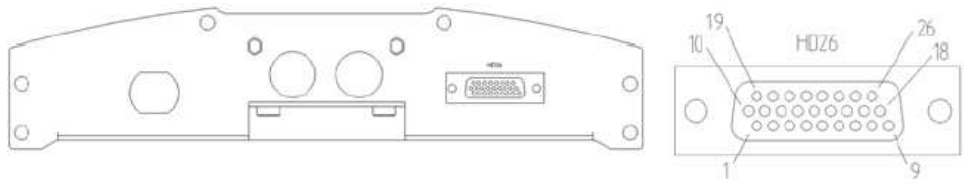
Input voltage	230Vac (195 to 264VAC), 47-63Hz Stable operation.
Input current (Max)	<10A
Efficiency (230Vac)	up to >93%
PF	>0.98
THD	<10%
Input fuse	(inside the unit) 20A
No Load Power	40W
Standby Power	4W
Inrush current	<30A, Shall not trip 10A B- type circuit breaker
Output	Nominal voltages for 24V, 36V and 48V (max = 1.5*nominal value)
Output current (Max)	FAN 80A, 53A and 40A
Output current (Max)	PASSIVE 70A, 45A and 35A
Output Voltage setting accuracy	±0.5%
Output Current setting accuracy	±2%
Output ripple	<1%rms from maximum output voltage (1MHz bandwidth)
Reversed polarity protection	fuse
Battery voltage sense	YES
Short circuit protection	YES
Overload protection	YES
External fan	YES, In passive cooled version NO
Isolations	
input-chassis	1500Vac
input-output	3000Vac
output-chassis	500Vac
Standards	
Safety	EN60950-1, EN60335-2-29, EN1175-1,
EMC Emissions	EN 61000-3-2, EN 61000-3-3, EN 55022B
EMC Immunity	EN 61000-4-2/-3/-4/-5/-6/-11
Approvals	CE marked
Protection class	IP54
Protection class	(Optional) IP66
Sensors	IP67
Dimensions w x h x d	367 mm x 230 mm x 83 mm
Ambient temperature (Absolute max)	+55°C
Ambient temperature (Full Power Out)	-35°C...+40°C
Mains cord & battery cable min temperature at non fixed installation	+5°C
Working life	90 000 hours powered & 30 000 hours fully operating
Cooling	Fan cooling & Passive cooling

Mains cord & battery cable "indoor use" min temperature +5°C, protection class IP20.

Mains cord & battery cable "outdoor use" min temperature -35°C, protection class IP44, PVC not allowed as material.

Minimum ambient temperature with fan is -10 °C.





HD26 Connector's pin order	Operation
4	LED green anode
22	LED common cathode
14	LED red anode
5	LED yellow anode
2	Sense plus (+)
12	Battery temperature compensation (-)
3	Battery temperature compensation (+)
20	Sense minus (-)
19	External input (+)
1	CAN-bus Hi
10	CAN-bus Lo
11	External input (-)
26	Relay Common
18	Relay Normally Open
9	Relay Normally Closed
	Not connected
25	Isolated +5V, 5mA output
7	Isolated output ground.