

ADC1100 SERIES

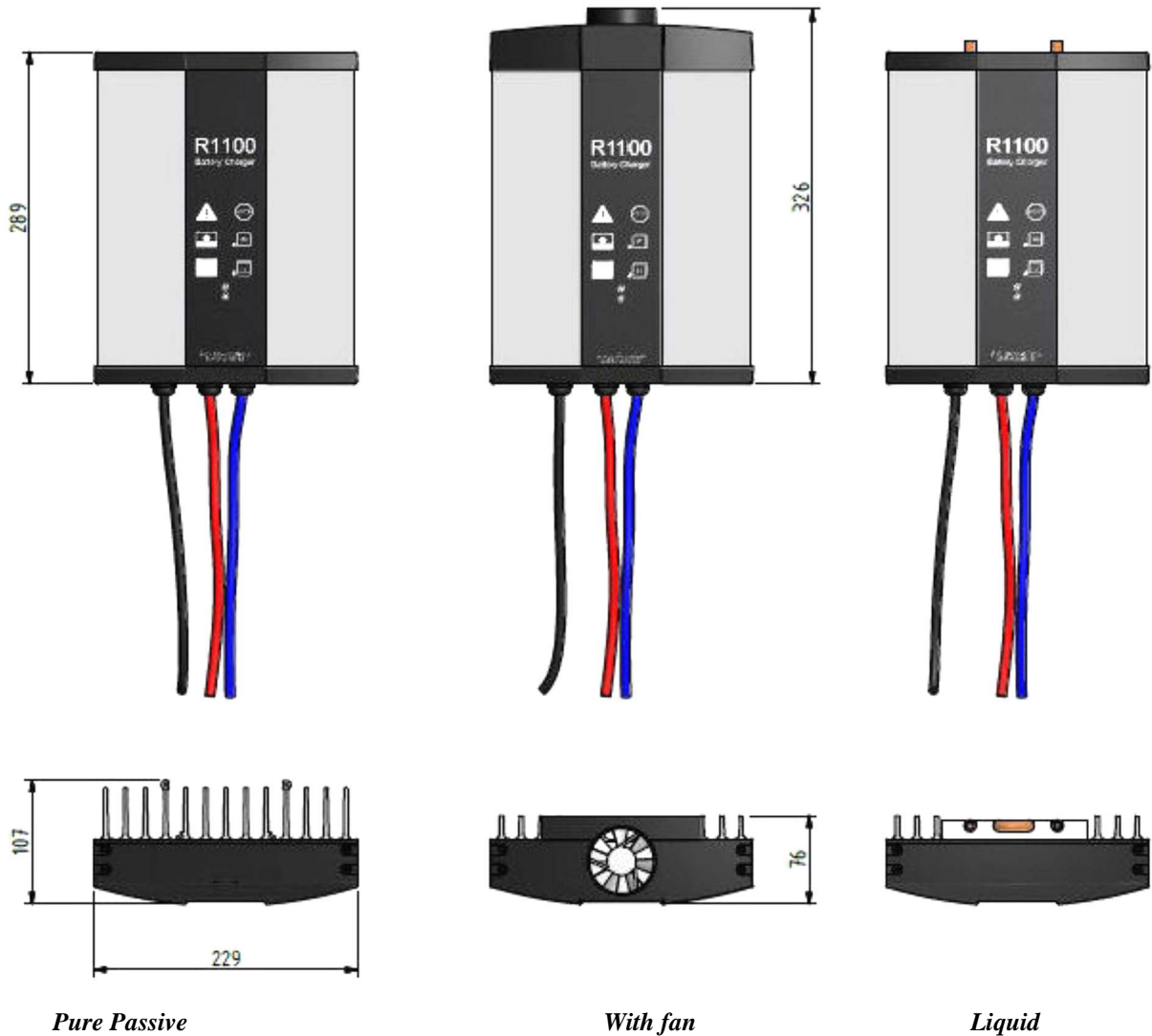
Robust Battery Charger for Harsh Environments



Features

- Designed for harsh environments
- IP 54 (IP56 optional)
- Passive cooling (or fan)
- New and Easy UI with high intensity LEDs
- Liquid cooling (optional)
- Intelligent options
- Output power 1100W
- Voltage versions: 24, 36 & 48V

Dimensions & Cooling options



Intelligent options

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

Technical data

Input voltage	230Vac (195-265Vac), 47-63Hz
Input current (Max)	<5A
Efficiency (230Vac, 50-100% load)	up to 93%
Power Factor	>0.99
THD	<10%
Inrush current	<30A, shall not trip 10A b-type circuit breaker
Input fuse (inside the unit)	10A
No Load Power	40W
Stand By Power	4W
Output	Nominal voltages for 24, 36 & 48V batteries (max = 1.5 x nominal value)
Output current (max)	40A, 22A, 20A
Output setting accuracy	± 0.25%
Output ripple	<1%rms (1MHz band with)
Hold up time	>5ms
Reversed polarity protection	reversed polarity at 1.5xnominal voltage
Over temperature protection	+80°C Power module temperature
Battery voltage sense	Yes, RJ connector located on main board
Short circuit protection	Yes
Overload protection	Yes
Isolations	
Input-chassis	1500Vac
input-output	3000Vac
output-chassis	1000Vac
Standards	
Safety	EN60950, EN60335-2-29, EN1175-1, UL1564
EMC emissions	EN61000-3-2, EN61000-3-3, EN55022B
EMC immunity	EN61000-4-2/-3/-4/-5/-6/-11
Approvals	CE
Protection class "indoor use"	IP54
Protection class "outdoor use" (optional)	IP56 (protection against heavy spray water)
Sensors	IP67
Dimensions	300 x 230 x 107mm (passive cooling) 327 x 230 x 83 mm (fan cooling)
Cooling	Passive (optional fan and liquid cooling)
Ambient temperature range (absolute max)	+55°C
Ambient temperature (full power)	-35°C ... +40°C
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.	
Working life	90 000h powered & 30 000h fully operating at +40°C