



**The Robust 1000 is an IP66 protected compact and versatile charger for on board and other demanding charging applications**

## TECHNICAL DATA

### ROBUST 1000 CHARGER

Nominal AC Input voltage	240VAC ( 100-240VAC *)
Input voltage range	85 - 270V, 47 - 63Hz
Input current (Max)	< 7,5A
Input fuse (inside the unit)	10A
Inrush current	< 30A, Shall not trip 10A B-type circuit breaker
Efficiency	up to > 93%
No Load Power	10W
Standby Power	4W
PF	> 0,98 (230V), > 0,99 (120V)
Maximum DC Output Power	1000W
Nominal Output Voltage	24V   48V
Maximum Output Voltage	36V   72V
Output current (Max)	40A   20A ( 35A   17A *)
Li-Ion battery charging	CAN bus communication, external BMS
Lead battery charging	Preselected charging curves
Cooling	Fan

\* Wide Input Version



Output Voltage setting accuracy	± 0,5%
Output Current setting accuracy	± 2%
Output ripple	< 1% rms from maximum output voltage (1MHz bandwidth)
Reverse polarity protection	Reversed polarity at 1,5* nominal voltage
Short circuit protection	YES
Overload protection	YES
Isolation:	
Input chassis	1500 Vac
Input-output	3000 Vac
Output-chassis	500 Vac
Standards:	
Safety	EN60335-2-29
EMC Emissions	EN61000-6-3:2007+A1, EN61000-3-2:2006+A1+A2
EMC Immunity	EN61000-6-2:2005, EN61000-3-3:2008
Dimensions and Weight	260mm (l) x 230mm (w) x 80mm (d), 3,2kg
Protection class	IP66
Ambient temperature (Absolute max)	+ 55°C
Ambient temperature (Full Power Out)	- 35°C ... + 35°C

## Typical U/I curves at 230VAC input

