



The Robust 3000, with output voltage 24 or 48VDC, is an IP66 protected compact and powerful charger for on board and other demanding charging applications

TECHNICAL DATA

ROBUST 3000 CHARGER

Nominal AC Input voltage	230VAC	
Input voltage range	195 - 264VAC, 47 - 63Hz Stable operations	
Input current (Max)	< 16A	
Input fuse (inside the unit)	20A	
Inrush current	< 30A, Shall not trip 16A B-type circuit breaker	
Efficiency	up to > 95%	
No Load Power	40W	
Standby Power	4W	
PF	> 0,98	
Maximum DC Output Power	3000W	
Nominal Output Voltage	24V	48V
Maximum Output Voltage	36V	72V
Output current (Max)	105A	60A
Li-Ion battery charging	CAN bus communication, external BMS	
Lead battery charging	Preselected charging curves	
Cooling	Fan cooling	



Output Voltage setting accuracy	± 0,5%
Output Current setting accuracy	± 2%
Output ripple	< 1% rms from maximum output voltage (1MHz bandwidth)
Reverse polarity protection	Fuse
Short circuit protection	YES
Overload protection	YES
Isolation:	
Input chassis	1500 Vac
Input-output	3000 Vac
Output-chassis	500 Vac
Standards:	
Safety	IEC 60335-1, EN60335-1, IEC 60335-2-29, EN 60335-2-29
EMC Emissions	EN 61000-6-3, EN 61000-3-2
EMC Immunity	EN 61000-6-2, EN 61000-3-3
Dimensions and Weight	367mm (l) x 230mm (w) x 83mm (d), 5,8kg
Protection class	IP54 enclosure (optional IP66)
Ambient temperature (Absolute max)	+ 55°C
Ambient temperature (Full Power Out)	- 35°C ... + 40°C

Typical U/I curves at 230VAC input

