

	12V	24V	36V	48V
Input voltage	190 - 264V AC	198 - 264V AC	198 - 264V AC	198 - 264V AC
Line frequency	47 - 63Hz			
Charge control	3 step IUU			
Charge voltage: cycle mode	14.7V	29.4V	44.1V	58.8V
Charge voltage, standby mode	13.7V	27.4V	41.1V	54.8V
Timer	4 hours ± 30min.	4 hours ± 30min	4 hours ± 30min	4 hours ± 30min
Charge current	10A +0/-10%	5A +0/-10%	3.3A +0/-10%	2.5A +0/-10%
Input surge current limitation	< 30A			
Leakage current from battery with mains switched off	< 2.5mA 12V battery voltage	< 3.5mA 24V battery voltage	< 4.0mA 36V battery voltage	< 4.0mA 48V battery voltage
Ripple	< 100mV p-p			
Efficiency (at 100% charge current) approx.	> 83%	> 85%	> 85%	> 85%
Switch frequency approx.	63kHz			
Temperature range: *Operating	-25 to +40oC			
Temperature range: *Storage	-25 to +85oC			
Protection	Short circuit proof / Against reversed polarity			
Insulation class	Class 1			
Insulation voltage: Primary - ground	1500V AC (2200VDC)			
Primary - secondary	4000V AC (5700VDC)			
Secondary - ground	500V AC (710VDC)			
Electrical Safety standards	EN 60335-2-29, EN 60601-1	EN 60335-2-29, EN 60601-1	EN 60335-2-29, EN 60601-1	EN 60335-2-29, EN 60601-1 Under condition that the output voltage inaccessible!
EMC standards	EN 61000-6-3, EN 55014, EN 61000-6-1, EN 60601-1-2			
IP-Grade	21 PCB with components are protected with Coating			
Mains connection	Mains cord			
Output terminals	Leads with battery clips			
Indication: 3 colour LED	Green: Constant voltage, standby mode			
Dimensions (LxWxH)	184 x 171 x 54mm			
Weight	1.5kg			