SPECIFICATIONS FOR 2116 NiMH	2-cell	3-6 cell	4-8 cell	5-10 cell	6-12 cell	10-20 cell
Available versions	x					
Input voltage	190-265VAC, 50-60Hz	90-265VAC, 50-60Hz				
No-load voltage	6.3V ± 0.7V	12.8V ± 0.7V	16.5V ± 1V	21V ± 1.2V	24.7V ± 1.5V	41V ± 2V
Max. output power	8.2W	16W				
Min. output voltage for −ΔV detection	2.5V (min 2 cells × min 1.25V pr. cell)	3.7V (min 3 cells x min 1.25V pr. cell)	5.0V (min 4 cells x min 1.25V pr. cell)	6.2V (min 5 cells x min 1.25V pr. cell)	7.5V (min 6 cells x min 1.25V pr. cell)	12.5V (min 10 cells x min 1.25V pr. cell)
Max. output voltage for −ΔV detection	5.4V (max 2 cells × max 1.8V pr. cell)	10.8V (max 6 cells x max 1.8V pr. cell)	14.4V (max 8 cells x max 1.8V pr. cell)	18V (max 10 cells x max 1.8V pr. cell)	21.6V (max 12 cells x max 1.8V pr. cell)	36V (max 20 cells x max 1.8V pr. cell)
−ΔV sensitivity mV/cell	10mV/0.6% at 2 cells.	10mV/0.6% at 6 cells.	8mV / 0.5% for 4-8 cells	8mV / 0.5% for 5-10 cells	8mV / 0.5% for 6-12 cells	8mV / 0.5% for 10-20 cells
Fast charge current	1.3A ± 100mA		1.0A ± 100mA	0.8A ± 100mA	0.7A ± 100mA	400mA ± 50mA
Top off charge (duration 1h after -dV detection)	160mA ± 30mA		130mA ± 30mA	110mA ± 30mA	100mA ± 30mA	65mA ± 20mA
Trickle charge current	30mA ± 15mA (continuously)					
Leakage current from battery with mains switch off	< 1mA					
Start timer	3 min, no −ΔV detection in this period					
Top-off timer	1 hour	1hour				
Safety timer The charger switch to trickle charge if no ΔV is detected before the safety timer has run out.	2 h					
Switch frequency	40kHz.					
Temperature range	-20 to +40oC (these values are only for the charger, not for the batteries).					
Charge control	−ΔV principle. Fast charging stops when the voltage has dropped 0.5% below its maximum recorded level.					
Voltage changes during charging	−ΔV detection is disabled if the voltage changes quickly. This to avoid false −ΔV if an external load kicks in during charging.					
Battery analyzing	Max. 20 sec after mains connection / battery connection (yellow LED).					
Efficiency	Appr. 80%.					
Fuses	Fusible resistor at input. Polyswitch fuse at the output protects the unit against wrong polarity.					
Insulation class	Class II.					
Electrical safety	EN 60601-1, EN 60950, EN 60335-2-29.					
EMC-standards	EN 61000-6-3, EN 50081-1, EN 61000-6-1, EN 50082-1, EN 60601-1-2.					
Insulation voltage (prim-sec)	4000V AC / 5700V DC.					
Mains connection	2-pins IEC 320 connector for changeable mains plug (EU, US and UK).					
Output terminals	Secondary cable with exchangeable plugs.					
LED-indication	Yellow: Initialization/no batt. Orange: Fast charge Green with short yellow flashes: Top off charge: Green: Trickle charge Red-Green flashing (error mode): Battery voltage low					
Resetting	A new charging cycle starts by reconnecting a battery at the output, or by disconnecting and connecting the mains voltage.					
IP-grade	IP4X					
Dimensions	103.5 x 46.8 x 38.7mm					
Weight	150g.					
Other	Possible options on request: +dT/dt, 0dV and timer charge. The charger may be both software and hardware programmable.					