SPECIFICATIONS FOR 2015 NiMH

	3-6 cell	4-8 cell	5-10 cell	6-12 cell
Available versions	x			
Input voltage	190-265VAC, 50-60Hz			
No-load voltage	12.8V ± 0.7V	16.5V ± 1V	21V ± 1.2V	24.7V ± 1.5V
Max. output power	40W			
Min. output voltage for -ΔV detection	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)
Max. output voltage for -ΔV detection	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)
-ΔV sensitivity mV/cell	10mV/0.6% at 6 cells.	8mV / 0.5% for 4-8 cells	5-10 cells	6-12 cells
Fast charge current	3.5A ± 250mA	2.8A ± 200mA	2.2A ± 150mA	1.8A ± 150mA
Top off charge (duration 1h after -dV detection)	480mA ± 100mA	400mA ± 80mA	330mA ± 70mA	270mA ± 60mA
Trickle charge current	150mA ± 70mA (continously)	150mA ± 70mA (continously)	100mA ± 50mA (continously)	100mA ± 50mA (continously)
Leakage current from battery with mains switch off	< 1mA			
Start timer	3 min, no -ΔV detection in this period			
Top-off timer	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. 78%.			
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	Plug-in europlug (UK, AU and US-plug also availible)			
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	IP 20.			
Dimensions	L100 × W63 × H47 (without plug).			
Weight	220g.			
Other	Possible options on request: +dT/dt, 0dV and timer charge. The charger may be both software and hardware programmable.			

SPECIFICATIONS FOR 2015 NiMH

	10-20 cell
Available versions	x
Input voltage	190-265VAC, 50-60Hz
No-load voltage	41V ± 2V
Max. output power	45W
Min. output voltage for -ΔV detection	12.5V (min 20 cells x min 1.25V pr. cell)
Max. output voltage for -ΔV detection	36V (max 20 cells x max 1.8V pr. cell)
-ΔV sensitivity mV/cell	10-20 cells
Fast charge current	1.2A ± 100mA
Top off charge (duration 1h after -dV detection)	160mA ± 50mA
Trickle charge current	50mA ± 25mA (continously)
Leakage current from battery with mains switch off	< 1mA
Start timer	3 min, no -ΔV detection in this period
Top-off timer	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. 78%.
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.
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