

BATTERY CHARGER, 452216-N, NiMH

SPECIFICATIONS	3-6	4-8	5-10	6-12	10-20
Cell-Con part number:	452216-NA	452216-NB	452216-NC	452216-ND	452216-NE
Input voltage:	90-265VAC/50-60Hz				
No-load voltage:	12.8V ±0.7V	16.5V ±1V	21V ±1.2V	24.7V ±1.5V	41V ±2V
Max output power:	35W				
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)	12.5V (min 10 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)	36V (max 20 cells x max 1.8V pr. cell)
-ΔV sensitivity mV/cell:	10mV/0.6%	8mV/0.5%			
Fast charge current:	3.0A ±250mA	2.2A ±150mA	1.8A ±150mA	1.5A ±100mA	900mA ±70mA
Top off charge (duration 1h after -dV detection):	390mA ±80mA	310mA ±80mA	270mA ±70mA	240mA ±60mA	130mA ±40mA
Trickle charge current:	100mA ±50mA (continously)				50m ±325mA (continously)
Leakage current from battery with mains switch off:	<1mA				
Start time:	3 min, no -ΔV detection in this period.				
Top-off timer:	1 hour				
Safety timer - The charger switch to trickle charge if no ΔV is detected before the safety timer has run out:	2 hours				
Switch frequency:	40kHz				
Temperature range:	-20 to +40°C (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:	2-pins IEC 320 connector for changeable mains plug (EU, US and UK).				
Output terminals:	Secondary cable with exchangeable plug.				
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 byreconnecting a battery at the output, or bydisconnecting and connecting the mains voltage.				
IP-grade:	IP41				
Dimensions:	117×75×44mm				
Weight:	275g				
Other:	Possible options on request: +dT/dt, 0dVand timer charge. The charger may beboth software and hardware programmable.				

CELL-CON
Battery & Charger Solutions

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