

BATTERY CHARGER, 452415-N, NiMH

SPECIFICATIONS	3-6	4-8	5-10	6-12	10-20	12-25	15-30
Cell-Con part number:	452415-NA	452415-NB	452415-NC	452415-ND	452415-NE	452415-NF	452415-NK
Input voltage:	90-265VAC						
Line frequency:	50-60Hz						
No-load voltage:	12.8V ±0.7V	16.5V ±1V	21V ±1.2V	24.7V ±1.5V	41V ±2V	51V ±2V	55V ±3V
Max output power:	49W	58W	63W	65W			
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)	15V (min 12 cells x min 1.25V pr. cell)	19V (min 15 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)	45V (max 25 cells x max 1.8V pr. cell)	49.5V (max 30 cells x max 1.65V pr. cell)
-ΔV sensitivity mV/cell:	10mV/0.6% at 6 cells	8mV / 0.5%					
Fast charge current:	4.5A ±350mA	4.0A ±300mA	3.5A ±300mA	3.0A ±200mA	1.8A ±150mA	1.5A ±100mA	1.3A ±100mA
Top off charge (duration 1h after -dV detection):	630mA ±100mA	560mA ±80mA	480mA ±70mA	420mA ±60mA	300mA ±60mA	210mA ±50mA (duration 1h after)	175mA ±50mA (duration 1h after)
Trickle charge current: (continuously)	150mA ±50mA (continuously)	130mA ±50mA (continuously)	100mA ±50mA (continuously)			50mA ±30mA	
Leakage current from battery with mains switch off:	<1mA						
Start timer:	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 +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 60950-1, EN 60335-2-29						
EMC-standards:	EN 61000-6-3, EN 61000-6-1, EN 60601-1-2						
Insulation voltage (primary-secondary):	4000V AC/5700V DC						
Mains connection:	2-pins IEC 320 mains connector.						
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.						
Resetting:	A new charging cycle starts by reconnecting a battery at the output, or by disconnecting and connecting the mains voltage.						
IP-grade:	IP41						
Dimensions:	135×80×44mm						
Weight:	390g						
Other:	Possible options on request: +dT/dt, 0dV and timer charge. The charger may be both software and hardware programmable.						

CELL-CON
Battery & Charger Solutions

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