

BATTERY CHARGER, 452515-N, NiMH

SPECIFICATIONS	3-6	4-8	5-10	6-12	10-20
Cell-Con part number:	452515-NA	452515-NB	452515-NC	452515-ND	452515-NE
Input voltage:	10-30VDC				
No-load voltage:	12.8V ±0.7V	16.5V ±1V	21V ±1.2V	24.7V ±1.5V	41V ±2V
Max output power:	27W	32W			
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:	2.5A ±250mA	2.2A ±150mA	1.8A ±150mA	1.5A ±100mA	900mA ±70mA
Top off charge (duration 1h after -dV detection):	350mA ±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. 80%				
Fuses:	5A fuse on input cable. Polyswitch fuse atthe output protects the unit against wrong polarity.				
EMC-standards:	EN 61204-3				
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 mainsvoltage.				
IP-grade:	IP41				
Dimensions:	107×67×36.5mm				
Weight:	250g				
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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