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SPECIFICATIONS FOR 4340 NiMH	4-8 cell	6-8 cell	6-12 cell	8-12 cell	10-20 cell	15-30 cell	20-40 cell
Available versions	x · · · · · · · · · · · · · · · · · · ·						
Input voltage	90 - 264VAC / 47 - 63Hz						
Max. output power	80W						
Min. output voltage for $\ensuremath{\mathbb{I}}\Delta V$ detection	5.0V (min 4 cells x min 1.25V pr. cell)	7.5V (min 6 cells x min 1.25V pr. cell)	7.8V (min 6 cells x min 1.3V pr. cell)	10.4V (min 8 cells x min 1.3V pr. cell)	13.0V (min 10 cells x min 1.3V pr. cell)	19.5V (min 15 cells x min 1.3V pr. cell)	26.0V (min 20 cells x min 1.3V pr. cell)
Max. output voltage for $\mathbb{N}\Delta V$ detection	13.6V (max 8 cells x max 1.7V pr. cell)		20.4V (max 12 cells x max 1.7V pr. cell)		34V (max 20 cells x max 1.7V pr. cell)	51.0V (max 30 cells x max 1.7V pr. cell)	64.0V (max 40 cells x max 1.60V pr. cell)
⊠∆V sensitivity mV/cell	3mV/cell (approx.)						
SoftStart current	200mA ± 50mA2@ Vbat < 5.0V	200mA ± 50mA2@ Vbat < 7.5V	200mA ± 50mA2@ Vbat < 7.8V	200mA ± 50mA2@ Vbat < 10.4V	150mA ± 50mA2@ Vbat < 13.0V	100mA ± 50mA2@ Vbat < 19.5V	100mA ± 25mA2@ Vbat < 26.0V
Fast charge current	5.8A ± 250mA		3.9A ± 200mA		2.35A +0.10/-0.2A	1.55A +0.10/-0.2A	1.25A +0.1 /-0.2A
Top off charge	730mA ± 100mA		560mA ± 100mA		370mA ± 100mA	245mA ± 50mA	210mA ± 50mA
Trickle charge current	200mA ± 50mA				150mA ± 50mA	100mA ± 25mA	
Efficiency at 100% load	89% 90%						
⊠∆V mask start timer	3 min, no II∆V de-tection in this period						
SoftStart Timer	30 min						
Top-off timer	1 hour						
Safety timer. The charger switch to trickle charge if no $\Delta V$ is detected before the safety timer has run out.	5 hours						
Switch frequency, approx.	65kHz						
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 3mV/cell below its maximum recorded level.						
Voltage changes during charging	$\Delta$ V detection is disabled if the voltage changes quickly. This to avoid false $\Delta$ V if an external load kicks in during charging.						
Leakage current from battery with mains switch off	< 1 mA at nominal battery voltage (< 0.72 Ah/month).						
Insulation class	Class I. (Class I on request)						
LED-indication	SoftStart / Fast charge: Yellow Top off charge: Flashing yellow Trickle charge: Green Battery not connected: Flashing green (1s/1s)						
Protection:	Protected against reversed polarity. Error indication: Red (2 blinks) Short circuit proof. Error indication: Red (3 blinks) Low battery voltage (SoftStart timer). Error indication: Red (4 blinks) No charge (or charge terminated) if connecting wrong battery pack with higher voltage. Indication: LED is OFF.						
NTC input, on request (std is 10kohm, B- value approx. 4000)	+dT/dt principle. Fast charging stops when the temperature increment is over 0.5°C/min. Battery temperature is too low (<0°C). Wait mode. Indication: Yellow with 1 red blink. Battery temperature is too high (>40°C). Wait mode. Indication: Yellow with 2 red blinks. High temperature (>60°C). Error Indication: Red (5 blinks). NTC missing or shorted. Error Indication: Red (6 blinks).						
Resetting	A new charging cycle starts by reconnecting a battery at the output, or by disconnecting and connecting the mains voltage.						
IP-grade	IP4X (IP44 on request)						
Dimensions	172.5 × 73 × 42 mm						
Weight	400g						
Other	Possible options on request: Charger parameters programmable with "Configurator tool". Constant current charge (no battery management). 0dV detection for EoC.						