BATTERY CHARGER, 452542-L, LI-ION

SPECIFICATIONS	1 CELL	2 CELLS	3 CELLS	4 CELLS	5 CELLS	6 CELLS	7 CELLS
Cell-Con part number:	452542-LA	452542-LB	452542-LC	452542-LD	452542-LE	452542-LF	452542-LG
Input voltage:	90-264VAC						
Line frequency:	47-63Hz						
Step 1 charge current:	2.7A ±0.1A	2.7A ±0.1A	2.3A ±0.1A	2.0A ±0.1A	1.6A ±0.1A	1.4A ±0.1A	1.2A ±0.1A
Step 2 charge voltage:	4.2V ±0.05V	8.4V ±0.1V	12.6V ±0.1V	16.8V ±0.1V	21.0V ±0.1V	25.2V ±0.1V	29.4V ±0.1V
- Charge current >: Orange - Charge current <: Yellow	1.15A ±0.1A	1.15A ±0.1A	1.00A ±0.1A	0.85A ±0.1A	0.70A ±0.1A	0.60A ±0.1A	0.50A ±0.1A
Step 3 charge termination I <:	100mA						
Charge start Vbat <:	4.0V ±0.1V or mains turn-on	8.0V ±0.1V or mains turn-on	12.1V ±0.1V or mains turn-on	16.2V ±0.1V or mains turn-on	20.3V ±0.1V or mains turn-on	24.4V ±0.1V or mains turn-on	28.5V ±0.1V or mains turn-on
Max output power:	11W	23W	29W	34W		35W	
Ripple:	<100mV p-p						
Efficiency (at 100% load, 230V) approx.:	0.63		0.78	0.83		0.84	0.85
Switch frequency approx.:	40kHz						
Leakage current from battery with mains switched off:	<250µA						
Protection:	Protected against reversed polarity and short circuit proof						
Temperature range:	**Operating:** -25 to +40°C / **Storage:** -25 to +85°C						
Safety:	EN 62368-1, EN 60601-1, EN 60335-2-29						
Insulation class:	Class II						
Insulation voltage: primary–secondary:	4000VAC/5656VDC						
EMC standard:	**Medical:** EN 60601-1-2 / **Emission:** EN 61000-6-3 / **Immunity:** EN 61000-6-1						
MTBF at Ta = 30oC and full load: Calculated according to MIL – HDBK – 217F	>250,000 hours						
Mains connection	2-pins IEC 60320 connector. (Exchangeable mains plugs EU, UK, US, AU available on type 2542)						
Output terminals:	Cord with/without plug. Exchangeable plugs available.						
IP-Grade:	41						
Dimensions:	107×67×37mm (117×75×44mm for type 2542)						
Weight:	250g (280g for type 2542)						

CELL-CON
Battery & Charger Solutions

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BATTERY CHARGER, 452542-L, LI-ION

SPECIFICATIONS	8 CELLS	9 CELLS	10 CELLS	11 CELLS	12 CELLS	13 CELLS	14 CELLS
Cell-Con part number:	452542-LH	452542-LI	452542-LJ	452542-LK	452542-LL	452542-LM	452542-LN
Input voltage:	90-264VAC						
Line frequency:	47-63Hz						
Step 1 charge current:	1.0A ±0.1A	0.9A ±0.1A	0.8A ±0.1A	0.7A ±0.1A	0.7A ±0.1A	0.6A ±0.08A	0.6A ±0.08A
Step 2 charge voltage:	33.6V ±0.1V	37.8V ±0.2V	42.0V ±0.2V	46.2V ±0.2V	50.4V ±0.3V	54.6V ±0.3V	58.8V ±0.3V
- Charge current >: Orange - Charge current <: Yellow	0.40A ±0.1A	0.35A ±0.1A	0.35A ±0.1A	0.30A ±0.1A	0.30A ±0.1A	0.25A ±0.05A	0.25V ±0.05V
Step 3 charge termination I <:	100mA						
Charge start Vbat <:	32.6V ±0.1V or mains turn-on	36.9V ±0.4V or mains turn-on	40.7V ±0.4V or mains turn-on	44.8V ±0.4V or mains turn-on	48.9V ±0.4V or mains turn-on	53.0V ±0.4V or mains turn-on	57.1V ±0.4V or mains turn-on
Max output power:	34W		32W	35W		33W	35W
Ripple:	<100mV p-p						
Efficiency (at 100% load, 230V) approx.:	0.85						
Switch frequency approx.:	40kHz						
Leakage current from battery with mains switched off:	<250µA						
Protection:	Protected against reversed polarity and short circuit proof						
Temperature range:	**Operating:** -25 to +40°C / **Storage:** -25 to +85°C						
Safety:	EN 62368-1, EN 60601-1, EN 60335-2-29						
Insulation class:	Class II						
Insulation voltage: primary–secondary:	4000VAC/5656VDC						
EMC standard:	**Medical:** EN 60601-1-2 / **Emission:** EN 61000-6-3 / **Immunity:** EN 61000-6-1						
MTBF at Ta = 30oC and full load: Calculated according to MIL – HDBK – 217F	>250,000 hours						
Mains connection	2-pins IEC 60320 connector. (Exchangeable mains plugs EU, UK, US, AU available on type 2542)						
Output terminals:	Cord with/without plug. Exchangeable plugs available.						
IP-Grade:	41						
Dimensions:	107×67×37mm (117×75×44mm for type 2542)						
Weight:	250g (280g for type 2542)						

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