BATTERY CHARGER, 452541-F, LiFePO4

SPECIFICATIONS	1 CELL	2 CELLS	3 CELLS	4 CELLS	5 CELLS	6 CELLS	7 CELLS	8 CELLS
Cell-Con part number:	452541-FA	452541-FB	452541-FC	452541-FD	452541-FE	452541-FF	452541-FG	452541-FH
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	1.0A ±0.1A
Step 2 charge voltage:	3.65V ±0.05V	7.3V ±0.1V	10.95V ±0.1V	14.6V ±0.1V	18.3V ±0.1V	21.9V ±0.1V	25.6V ±0.1V	29.2V ±0.1V
- charge current > (Orange): - charge current < (Yellow):	1.15A ±0.1A	1.15A ±0.1A	1.0A ±0.1A	0.85A ±0.1A	0.7A ±0.1A	0.6A ±0.1A	0.5A ±0.1A	0.40A ±0.1A
Step 3 charge termination I < (Green):	100mA							
Float charge voltage:	3.5V ±0.05V	7.0V ±0.1V	10.5V ±0.1V	14.0V ±0.1V	17.5V ±0.1V	21.0V ±0.1V	24.5V ±0.1V	28.0V ±0.1V
Max output power:	10W	20W	25W	30W	29W	31W	31W	30W
Ripple:	<100mV p-p							
Efficiency (at 100% load, 230V) approx.:	0.6	0.78	0.8	0.82	0.84	0.85	0.85	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 +40oC / **Storage:** -25 to +85oC							
Safety:	EN 62368-1, EN 60601-1, EN 60335-2-29							
Insulation class:	Class II							
Insulation voltage (primary–secondary):	4000VAC/5656VDC							
EMC standards:	**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

www.cell-con.com
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BATTERY CHARGER, 452541-F, LiFePO4

SPECIFICATIONS	9 CELLS	10 CELLS	11 CELLS	12 CELLS	13 CELLS	14 CELLS	15 CELLS	16 CELLS
Cell-Con part number:	452541-FI	452541-FJ	452541-FK	452541-FL	452541-FM	452541-FN	452541-FO	452541-FP
Input voltage:	90-264VAC							
Line frequency:	47-63Hz							
Step 1 charge current:	0.9A ±0.1A	0.8A ±0.1A	0.7A ±0.1A	0.7A ±0.1A	0.6A ±0.08A			
Step 2 charge voltage:	32.9V ±0.1V	36.5V ±0.1V	40.2V ±0.2V	43.8V ±0.2V	47.5V ±0.2V	51.1V ±0.3V	54.8V ±0.3V	58.4V ±0.3V
- charge current > (Orange): - charge current < (Yellow):	0.35A ±0.1A	0.35A ±0.1A	0.30A ±0.1A	0.30A ±0.1A	0.25A ±0.05A			
Step 3 charge termination I < (Green):	100mA							
Float charge voltage:	31.5V ±0.4V	35.0V ±0.4V	38.5V ±0.4V	42.0V ±0.4V	45.5V ±0.4V	49.0V ±0.4V	52.5V ±0.4V	56.0V ±0.4V
Max output power:	30W	29W	28W	31W	29W	31W	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 +40oC / **Storage:** -25 to +85oC							
Safety:	EN 62368-1, EN 60601-1, EN 60335-2-29							
Insulation class:	Class II							
Insulation voltage (primary–secondary):	4000VAC/5656VDC							
EMC standards:	**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).							
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