BATTERY CHARGER, 452440-F, LiFePO4

SPECIFICATIONS	1 CELL	2 CELLS	3 CELLS	4 CELLS	5 CELLS	6 CELLS	7 CELLS	8 CELLS
Cell-Con part number:	452440-FA	452440-FB	452440-FC	452440-FD	452440-FE	452440-FF	452440-FG	452440-FH
Input voltage:	90-264VAC							
Line frequency:	47-63Hz							
Max output power:	15W	29W	44W	58W	71W	72W		73W
Ripple:	<100mV p-p							
Efficiency (at 100% load, 230V) approx.:	>60%	>77%	>80%	>81%	>85%			>87%
Leakage current from battery with mains switched off:	<0.4mA @3.2V	<0.4mA @6.4V	<0.7mA @9.6V	<0.7mA @12.8V	<0.7mA @16.0V	<0.7mA @19.2V	<0.7mA @22.4V	<0.8mA @25.6V
Step 1. charge current:	4.0A ±0.2A				3.9A ±0.2A	3.3A ±0.1A	2.8A ±0.1A	2.5A ±0.1A
Step 2. charge voltage:	3.65V ±0.05V	7.3V ±0.1V	10.95V ±0.1V	14.6V ±0.1V	18.25V ±0.1V	21.9V ±0.2V	25.55V ±0.2V	29.2V ±0.2V
- charge current > (Orange): - charge current < (Yellow):	1.8A ±0.2A	1.8A ±0.1A		1.6A ±0.1A			0.8A ±0.1A	
Step 3. charge termination I < (Green):	300mA						300mA ±25%	300mA
Float charge voltage:	3.5V ±0.05V	7.0V ±0.1V	10.5V ±0.1V	14.0V ±0.1V	17.5V ±0.2V	21.0V ±0.2V	24.5V ±0.2V	28.0V ±0.2V
NTC input on request (10K):	0-45°C normal charge <0 or >45°C reduced charge (LED indication is yellow)							
Switch frequency approx.:	40kHz							
Protection:	Protected against reversed polarity and short circuit proof							
Temperature range:	**Operating:** -25 to +40oC / **Storage:** -25 to +85oC							
Safety:	**Medical:** EN 60601-1 / **Home Health Care:** EN 60601-1-11 / **Battery Charger:** EN 60335-2-29							
Insulation class:	Class II (Class I on request)							
Insulation voltage (primary – secondary):	4000VAC/5700VDC							
EMC standards:	**Medical:** EN 60601-1-2 / **Emission:** EN 61000-6-3 / **Immunity:** EN 61000-6-1							
Mains connection:	2-pins IEC 60320/C8 connector. (3-pins IEC 60320/C14 connector or non-detachable mains cord on request).							
Output terminals:	Battery clips or DC connector							
IP-Grade:	IP4X (IP67 on request)							
Dimensions:	135×80×44mm							
Weight:	390g (890g IP67 version)							

CELL-CON
Battery & Charger Solutions

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SPECIFICATIONS	9 CELLS	10 CELLS	11 CELLS	12 CELLS	13 CELLS	14 CELLS	15 CELLS	16 CELLS
Cell-Con part number:	452440-FI	452440-FJ	452440-FK	452440-FL	452440-FM	452440-FN	452440-FO	452440-FP
Input voltage:	90-264VAC							
Line frequency:	47-63Hz							
Max output power:	72W	71W	72W		71W	72W	71W	70W
Ripple:	<100mV p-p							
Efficiency (at 100% load, 230V) approx.:	>85%	>87%						
Leakage current from battery with main switched off:	<1.5mA @28.8V	<1.5mA @32.0V	<1.5mA @35.2V	<1.5mA @38.4V	<1.5mA @41.6V	<1.5mA @44.8V	<1.5mA @48.0V	<1.5mA @51.2V
Step 1. charge current:	2.2A ±0.2A	1.95A ±0.1A	1.8A ±0.1A	1.65A ±0.1A	1.5A ±0.1A	1.4A ±0.1A	1.3A ±0.1A	1.2A ±0.1A
Step 2. charge voltage:	32.85 ±30.2V	36.5V ±0.2V	40.15V ±0.2V	43.8V ±0.3V	47.45V ±0.3V	51.1V ±0.3V	54.75V ±0.3V	58.4V ±0.3V
- charge current > (Orange): - charge current < (Yellow):	0.8A ±0.1A	0.6A ±0.1A						
Step 3. charge termination I < (Green):	200mA				100mA			
Float charge voltage:	31.5V ±0.2V	35.0V ±0.2V	38.5V ±0.2V	42.0V ±0.3V	45.5V ±0.3V	49.0V ±0.3V	52.5V ±0.3V	56.0V ±0.3V
NTC input on request (10K):	0-45°C normal charge <0 or >45°C reduced charge (LED indication is yellow)							
Switch frequency approx.:	40kHz							
Protection:	Protected against reversed polarity and short circuit proof							
Temperature range:	**Operating:** -25 to +40oC / **Storage:** -25 to +85oC							
Safety:	**Medical:** EN 60601-1 / **Home Health Care:** EN 60601-1-11 / **Battery Charger:** EN 60335-2-29							
Insulation class:	Class II (Class I on request)							
Insulation voltage (primary – secondary):	4000VAC/5700VDC							
EMC standards:	**Medical:** EN 60601-1-2 / **Emission:** EN 61000-6-3 / **Immunity:** EN 61000-6-1							
Mains connection:	2-pins IEC 60320/C8 connector. (3-pins IEC 60320/C14 connector or non-detachable mains cord on request).							
Output terminals:	Battery clips or DC connector							
IP-Grade:	IP4X (IP67 on request)							
Dimensions:	135×80×44mm							
Weight:	390g (890g IP67 version)							

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