BATTERY CHARGER, 452440-L, LI-ION

SPECIFICATIONS	1 CELL	2 CELLS	3 CELLS	4 CELLS	5 CELLS	6 CELLS	7 CELLS	8 CELLS
Cell-Con part number:	452440-LA	452440-LB	452440-LC	452440-LD	452440-LE	452440-LF	452440-LG	452440-LH
Input voltage:	90-264VAC							
Line frequency:	47-63Hz							
Max output power:	17W	34W	51W	59W	70W	71W	74W	71W
Ripple:	<100mV p-p							
Efficiency (at 100% load, 230V) approx.:	>60%	>80%	>81%	>85%		>86%	>85%	
Leakage current from battery with mains switched off:	<0.4mA @ 3.7V	<0.4mA @ 7.4V	<0.7mA @11.1V	<0.7mA @14.8V	<0.6mA @18.5V	<0.7mA @22.2V	<0.9mA@25.9V	<1.6mA @29.6V
Step 1 charge current:	4.0A ±0.2A			3.5A ±0.2A	3.3A ±0.2A	2.8A ±0.2A	2.5A ±0.2	2.1A ±0.2A
Step 2 charge voltage:	4.2V ±0.05	8.4V ±0.1V	12.6V ±0.1V	16.8V ±0.1V	21.0V ±0.1V	25.2V ±0.2V	29.4V ±0.2V	33.6V ±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							
Charge start Vbat<:	4.1V ±0.1V or mains turn-on	8.0V ±0.1V or mains turn-on	12.3V ±0.1V or mains turn-on	16.4V ±0.1V or mains turn-on	20.5V ±0.1V or mains turn-on	24.6V ±0.2V or mains turn-on	28.7V ±0.2V or mains turn-on	32.8V ±0.2V or mains turn-on
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 +40°C / **Storage:** -25 to +85°C							
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

www.cell-con.com
2 Enterprise Lane, Bedford, PA 15522 | P: 814.623.7057 | sales@cell-con.com

BATTERY CHARGER, 452440-L, LI-ION

SPECIFICATIONS	9 CELLS	10 CELLS	11 CELLS	12 CELLS	13 CELLS	14 CELLS	15 CELLS	16 CELLS
Cell-Con part number:	452440-LI	452440-LJ	452440-LK	452440-LL	452440-LM	452440-LN	452440-LO	452440-LP
Input voltage:	90-264VAC							
Line frequency:	47-63Hz							
Max output power:	72W	76W	74W	73W	74W	76W	72W	67W
Ripple:	<100mV p-p							
Efficiency (at 100% load, 230V) approx.:	85%	88%	87%			88%	87%	
Leakage current from battery with mains switched off:	<1.6mA @33.3V	<0.9mA @37.0V	<1.6mA @40.7V	<1.6mA @44.4V	<1.6mA @48.1V	<0.5mA @51.8V	<1.6mA @55.5V	<0.6mA @59.2V
Step 1 charge current:	1.9A ±0.2A	1.8A ±0.1A	1.6A ±0.1A	1.45A ±0.1A	1.35A ±0.1A	1.3A ±0.1A	1.15A ±0.1A	1.0A ±0.1A
Step 2 charge voltage:	37.8V ±0.2V	42.0V ±0.2V	46.2V ±0.2V	50.4V ±0.3V	54.6V ±0.3V	58.8V ±0.3V	63.0V ±0.3V	67.2V ±0.3V
- charge current >: Orange - charge current <: Yellow	0.8A ±0.1A			0.6A ±0.1A				
Step 3 charge termination I <: Green	200mA				100mA			
Charge start Vbat<:	36.9V ±0.2V or mains turn-on	41.0V ±0.2V or mains turn-on	45.1V ±0.2V or mains turn-on	49.2V ±0.3V or mains turn-on	53.3V ±0.3V or mains turn-on	57.4V ±0.3V or mains turn-on	61.5V ±0.3V or mains turn-on	65.6V ±0.3V or mains turn-on
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 +40°C / **Storage:** -25 to +85°C							
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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