BATTERY CHARGER, 454040-S, LEAD ACID

SPECIFICATIONS	12 V	24 V	36 V	48 V
Available versions:	454040-SB	454040-SC	454040-SD	454040-SE
Input voltage:	90-264VAC			
Line frequency:	47-63Hz			
Active power factor correction:	Yes			
Max output power:	117.6W		117.2W	117.6W
Step 0. <30min: Yellow	CC 800mA ±50mA, when battery voltage <10.5V	CC 500mA ±25mA, when battery voltage <21.0V	CC 300mA ±25mA, when battery voltage <31.5V	CC 200mA ±25mA, when battery voltage <42.0V
Step 0. >30min: Red (4 blinks)	0A/0V			
Step 1. Constant current: Yellow	CC 8.0A ±0.2A, when 10.5V <Vbat <14.7V	CC 4.0A ±0.2A, when 21V <Vbat <29.4V	CC 2.65A ±0.2A, when 31.5V <Vbat <44.1V	CC 2.0A ±0.2A, when 42V <Vbat < 58.8V
Step 2. Constant voltage: Flashing Yellow	CV 14.7V ±0.2V <5.5A until I charge <1.3A or max. 4h	CV 29.4V ±0.2V <2.8A until I charge <0.65A or max. 4h	CV 44.1V ±0.2V <1.5A until I charge <0.45A or max. 4h	CV 58.8V ±0.2V <1.4A until I charge <0.35A or max. 4h
Charge timer (Step 2, CV):	4h			
Safety timer (all steps): Red (5 blinks)	72h			
Step 3. Float charge voltage: Green	13.7V	27.4V	41.1V	54.8V
Restart voltage:	13.0V	26.0V	39.0V	52.0V
Formation charge (Step 0):	Low current start-up of deeply discharged battery			
Float charge:	CC pulses at safe float voltage level for maximum topping of battery capacity			
Wake-up of deeply discharged battery:	Yes, will apply voltage which deactivates deep discharge protection in battery pack			
Indication when "battery not connected":	Flashing Green (1s/1s)			
Temperature compensation of charge voltage:	-3.5mV/°C pr cell. Nominal charge voltage at 20°C. (min 2.2V/cell, max 2.67V/cell)			
Ripple:	<100mV p-p			
Efficiency (at 230V 100% load) approx.:	0.91			
Switch frequency approx.:	45-75kHz			
Leakage current from battery with mains switched off:	<1 mA at nominal battery voltage (<0.72 Ah/month)			
Protection:	Protected against reversed polarity. Error Indication: Red (2 blinks) Short circuit proof. Error Indication: Red (3 blinks) Charging of wrong lower voltage battery pack will be terminated after 30min (See step 0). Indication: Red (4 blinks) Safety timer. Error Indication: Red (5 blinks) Battery temperature too high >50°C: Error Red (7 blinks) No charge (or charge terminated) if connecting wrong battery pack with higher voltage. Indication: LED is OFF.			
Temperature range:	**Operating:** -25 to +40°C / **Transport and Short Time Storage:** -25 to +85°C			
Derating at 40°C approx.:	5.5A	3.1A	1.8A	1.50A
Safety:	**Medical EN** 60601-1 / **Home Health Care EN** 60601-1-11 / **Battery Charger EN** 60335-2-29 / **A/V and Comm. Tech:** IEC 62368-1			
Insulation class:	Class II (Class I on request)			
Insulation voltage (primary–secondary):	4000VAC/5700VDC			
EMC standards:	**EN** 55014-1 and –2 / **Emission EN** 61000-6-3 / **Immunity EN** 61000-6-1, EN 60601-1-2			
Input terminal:	2-pins IEC 320 connector, C8 or mains cable (3pins IEC 320 connector, C6 on request)			
Output terminals:	DC connector, Battery clips, Push-on terminals or open ends			
IP-Grade:	41			
Rec. battery capacity:	40-400Ah	20-200Ah	13-130Ah	10-100Ah
Dimensions:	203.5×87×43. mm			
Weight:	775g			
Other:	**CBC Functionality:** Configurable battery charger / **Charging History:** Log of 10 latest charge cycles. Automatic detection of diode in series with battery.			

CELL-CON
Battery & Charger Solutions

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