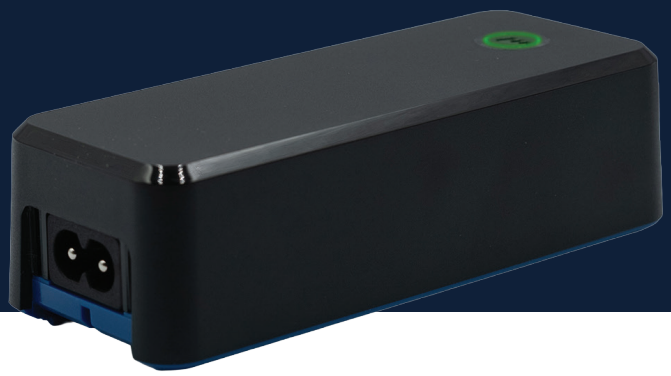

BATTERY CHARGER, 453546-S, LEAD ACID

SPECIFICATIONS	6 V	12 V	18 V	24 V
Available versions:	453546-SA	453546-SB	453546-SG	453546-SC
Input voltage:	90-264VAC			
Line frequency:	47-63Hz			
Max output power:	29.4W	28.9W	29.4W	18.4W
Step 0: <30min: Yellow	CC 100mA ±25mA, when battery voltage <10.5V	CC 100mA ±25mA, when battery voltage <16.0V	CC 100mA ±25mA, when battery voltage <21.0V	CC 100mA ±25mA, when battery voltage <5.25V
Step 0: >30min: Red (4 blinks)	0A / 0V			
Step 1: Constant current: Yellow	CC 2.0A ±0.1A, when 10.5V <Vbat <14.7V	CC 1.3A ±0.1A, when 16V <Vbat <22.05V	CC 1.0A ±0.1A, when 21V <Vbat <29.4V	CC 2.5A ±0.2A, when 5.25V <Vbat <7.35V
Step 2: Constant voltage: Flashing Yellow	CV 14.7V ±0.2V, until I charge <500mA or max. 4h	CV 22.05V ±0.2V, until I charge <300mA or max. 4h	CV 29.4V ±0.2V, until I charge <250mA or max. 4h	CV 7.35V ±0.1V, until I charge <600mA or max. 4h
Charge timer (Step 2, CV):	4h			
Safety timer (all steps): Red (5 blinks)	72h			
Step 3. Maintenance voltage: Green	13.7V	20.5V	27.4V	6.85V
Restart voltage:	13.0V	19.5V	26.0V	6.5V
Efficiency (at 100% load) approx:	0.8	0.82	0.84	0.8
No load consumption:	<0.5W			
Switch frequency approx.:	35kHz			
Ripple:	<100mV p-p			
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			
Indication when "battery not connected":	Flashing Green (1s/1s)			
Leakage current from battery with mains switched off:	<0.3mA			
Temperature compensation of charge voltage (optional):	-3.5mV/°C pr cell. Nominal charge voltage at 20°C. (min 2.2V/cell, max 2.67V/cell)			
Protection:	Error indications: LED off: Battery voltage too high. Check battery voltage. 2 red blinks: Battery is connected to charger with reverse polarity. 3 red blinks: Charger output is shorted. Check cable/connectors. 4 red blinks: Battery voltage is low after start timer has run out. 5 red blinks: Timeout safety timer. 6 red blinks: Defect battery. Abnormal voltage changes. 7 red blinks: Temperature too high, disconnect mains to reset. 8 red blinks: Thermistor open or short (if mandatory).			
Temperature range:	**Operating:** -25 to +40°C / **Transport and Short Time 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			
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			
Output terminals:	DC connector, Battery clips, Push-on terminals or open ends			
IP-Grade:	4X			
Rec. battery capacity:	10Ah (C/5) to 25Ah (<500mA charge current as EoC detection) or up to 100Ah (utilizing the 4h CV timer as EoC detection)	8.5Ah (C/5) to 25Ah (<300mA charge current as EoC detection) or up to 50Ah (utilizing the 4h CV timer as EoC detection)	5Ah (C/5) to 12.5Ah (<250mA charge current as EoC detection) or up to 100Ah (utilizing the 4h CV timer as EoC detection)	12.5Ah (C/5) to 30Ah (<600mA charge current as EoC detection) or up to 125Ah (utilizing the 4h CV timer as EoC detection)
Dimensions:	123.5×49.5×37 mm			
Weight:	220g			
Other:	**BC Functionality:** Configurable Battery Charger / **Charging History:** Log of latest charge cycles			

CELL-CON
Battery & Charger Solutions

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