BATTERY CHARGER, 453743-S, LEAD ACID

SPECIFICATIONS	6 V	12 V	24 V
Available versions:	453743-SA	453743-SB	453743-SC
Input voltage/Line frequency:	90-264VAC/47-63Hz		
Max output power:	11W	14.7W	16.5W
Step 0. <30min: Yellow	CC 100mA ±25mA, Vbat <5V	CC 100mA ±25mA, Vbat <10.5V	CC 100mA ±25mA, Vbat <21V
Step 0. >30min: Red (4 blinks)	0A/0V		
Step 1. Constant current: Yellow	CC 1.5A ±5%, 5V <Vbat <7.35V	CC 1A ±5%, 10.5V <Vbat <14.7V	CC 0.56A ±5%, 21V <Vbat <29.4V
Step 2. Constant voltage: Flashing Yellow	CV 7.35V ±0.1V, Ich <400mA or 4h	CV 14.7V ±0.1V, Ich <250mA or 4h	CV 29.4V ±0.1V, Ich <150mA or 4h
Charge timer (Step 2, CV):	4h		
Safety timer (all steps): Red (5 blinks)	72h		
Step 3. Maintenance voltage: Green	6.85V	13.7V	27.4V
Restart voltage:	6.5V	13.0V	26.0V
Efficiency (at 100% load) approx.:	0.8	0.82	0.84
No load consumption:	<0.5W		
Switch frequency approx.:	56kHz		
Ripple:	<100mV p-p		
Formation charge (Step 0):	Low current start-up of deeply discharged battery		
Float charge:	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:	<300µA at nominal battery voltage (<0.22 Ah/month)		
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 / **Storage:** -25 to +85°C		
Safety:	**Medical EN** 60601-1 / **Home Health Care EN** 60601-1-11 (VNOM≥110VAC) / **Battery Charger EN** 60335-2-29 / **A/V and Comm. Tech:** EN/IEC/UL 62368-1		
Insulation class:	Class II		
Insulation voltage (primary–secondary):	4000VAC/5700VDC		
EMC standards:	**EN** 55014-1 and –2 / **EN** 61000-6-3 / **EN** 61000-6-1 / **EN** 60601-1-2		
Input terminal:	2-pins IEC 320 connector for exchangeable mains plug (EU, US, UK and AUS) or mains cord with C7 connector		
Output terminals:	Cord with/without plug. Exchangeable plugs available.		
IP-Grade:	IP41		
Rec. battery capacity:	7.5Ah (C/5) to 20Ah (<400mA charge current as EoC detection) or up to 75Ah (utilizing the 4h CV timer as EoC detection)	5Ah (C/5) to 12.5Ah (<250mA charge current as EoC detection) or up to 50Ah (utilizing the 4h CV timer as EoC detection)	2.8Ah (C/5) to 7.5Ah (<150mA charge current as EoC detection) or up to 28Ah (utilizing the 4h CV timer as EoC detection)
Dimensions:	108.5×49×29.3mm		
Weight:	150g		
Other:	**CBC Functionality:** Configurable battery charger / **Charging History:** Log of latest charge cycles		

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