BATTERY CHARGER, 454340-S, LEAD ACID

SPECIFICATIONS	6 V	8 V	12 V	24 V	36 V	48 V
Available versions:	454340-SA	454340-SF	454340-SB	454340-SC	454340-SD	454340-SE
Input voltage:	90-264VAC					
Line frequency:	47-63Hz					
Active power factor correction:	Yes					
Max output power:	60W	79W	80W			
Step 0. <30min: Yellow	CC 700mA, when battery voltage <5.25V	CC 350mA, when battery voltage <21V	CC 700mA, when battery voltage <10.5V	CC 350mA, when battery voltage <21V	CC 200mA, when battery voltage <31.5V	CC 200mA, when battery voltage <42.0V
Step 0. >30min: Red (4 blinks)	0A / 0V					
Step 1. Constant current: Yellow	CC 8.0A +0.15/-0.3A, when 5.25V <Vbat <7.35V	CC 8.0A +0.15/-0.3A, when 7.0V <Vbat <9.8V	CC 5.4A +0.1/-0.3A, when 10.5V <Vbat <14.7V	CC 2.7A +0.1/-0.3A, when 21V <Vbat <29.4V	CC 1.8A +0.05/-0.2A, when 31.5V< Vbat <44.1V	CC 1.35A +0.15/-0.3A, when 42V <Vbat <58.8V
Step 2A. Constant voltage: Flashing Yellow	CV 7.35V ±0.1V, when 8.0A >Ich >5.6A CV	CV 9.8V ±0.1V, when 8.0A >Ich >5.6A CV	CV 14.7V ±0.2V, when 5.4A >Ich >3.8A CV	CV 29.4V ±0.2V, when 2.7A >Ich >2.0A CV	CV 44.1V ±0.2V, when 1.8A >Ich >1.4A CV	CV 58.8V ±0.2V, when 1.35A >Ich >1.0A CV
Step 2B. Constant voltage: Flashing Yellow	7.35V ±0.2V, 5.6A >Ich >1.3A or max. 4h	9.8V ±0.2V 5.6A >Ich >1.3A or max. 4h	14.7V ±0.2V, 3.8A >Ich >1.0A or max. 4h	29.4.1V ±0.2V, 2.0A >Ich >0.5A or max. 4h	44.1V ±0.2V, 1.4A >Ich 0.35A or max. 4h	58.8V ±0.2V, 1.0A >Ich >0.27A or max. 4h
Enter float charge criteria: Current or timer	Ich <1.3A or 4h in step 2B	Ich <1.3A or 4h in step 2B	Ich <1.0A or 4h in step 2B	Ich <0.5A or 4h in step 2B	Ich <0.35A or 4h in step 2B	Ich <0.27A or 4h in step 2B
Safety timer (all steps): Red (5 blinks)	72h					
Step 3. Float Charge voltage: Green	6.85V	9.13V	13.7V	27.4V	41.1V	54.8V
Restart voltage:	6.5V	8.7V	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.:	>87%	>88%	>90%			>90%
Switch frequency approx.:	65kHz					
Leakage current from battery with mains switched off:	<1mA 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 after 30min (See Step 0) Indication: Red (4 blinks) Safety timer Error Indication: Red (5 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.:	6.0A		4.2A	2.2A	1.7A	1.2A
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. (3pins IEC 320 connector, C6 on request) or mains cable.					
Output terminals:	DC connector, Battery clips, Push-on terminals or open end.					
IP-Grade:	IP4X (IP44 on request)					
Rec. battery capacity:	40Ah (5xIch) to 74Ah (<1.3A as EoC) or up 400Ah (utilizing the 4h CV timer as EoC)	40Ah (5xIch) to 74Ah (<1.3A as EoC) or up 400Ah (utilizing the 4h CV timer as EoC)	27Ah (5xIch) to 50Ah (<1.0A as EoC) or up 270Ah (utilizing the 4h CV timer as EoC)	3.5Ah (5xIch) to 25Ah (<0.5A as EoC) or up 135Ah (utilizing the 4h CV timer as EoC)	9Ah (5xIch) to 17.5Ah (<0.35A as EoC) or up to 90Ah (utilizing the 4h CV timer as EoC)	6.8Ah (5xIch) to 13.5Ah (<0.27A as EoC) or up 68Ah (utilizing the 4h CV timer as EoC)
Dimensions:	172.5×73×42mm					
Weight:	460g					
Other:	**CBC Functionality:** Configurable battery charger / **Charging History:** Log of 10 latest charge cycles					

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