

SPECIFICATIONS FOR 4340 LA	12V Lead Acid	24V Lead Acid	36V Lead Acid	48V Lead Acid
Available versions	x			
Input voltage: / Line frequency	90-264Vac 47-63Hz			
Active power factor correction:	Yes			
Max output power:	80W			
Step 0 < 30min Yellow	CC 700mA, when batt voltage < 10.5V.	CC 350mA, when batt voltage < 21V.	CC 200mA, when batt voltage < 42V.	CC 200mA, when batt voltage < 31.5V.
Step 0 > 30min Red (4 blinks)	0A / 0V			
Step 1 (Constant Current) Yellow	CC 5.4A +0.15/-0.3A, when 10.5V <Vbat <14.7V.	CC 2.70A +0.1/-0.3A, when 21V < Vbat < 29.4V.	CC 1.8A +0.1/-0.3A, when 31.5V <Vbat < 44.1V.	CC 1.35A +0.05/-0.2A, when 42V< Vbat< 58.8V.
Step 2A (Constant Voltage) Flashing Yellow	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	14.7V ± 0.2V 3.8A > Ich > 1.0A or max. 4h.	CV 29.4V ± 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 < 1.0A 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	13.7V	27.4V	41.1V	54.8.4V
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.:	> 90%			> 91%
Switch frequency approx.:	65kHz			
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 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 +40oC. Transport and short time storage: -25 to +85oC			
Derating at 40oC approx.:	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 ends.			
IP-Grade:	IP4X (IP44 on request)			
Rec. battery capacity:	27Ah (5xIch) to 50Ah (< 1A as EoC) or up to 270Ah (utilizing the 4h CV timer as EoC)	3.5Ah (5xIch) to 25Ah (< 0.5A as EoC) or up to 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 to 68Ah (utilizing the 4h CV timer as EoC)
Dimensions:	172.5 × 73 × 42 mm			
Weight:	460g			
Other:	CBC functionality: Configurable Battery Charger. Charging history: Log of 10 latest charge cycles.			