SPECIFICATIONS FOR 3546 LiFe	4c LiFePO4	8c LiFePO4
Available versions	x	x
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz	90 - 264VAC / 47 - 63Hz
Max output power	29.2W	28.9W
Step 0 < 30min Yellow	CC 100mA ± 25mA, when batt voltage < 10.5V.	CC 100mA ± 25mA, when batt voltage < 21V.
Step 0 > 30min Red (4 blinks)	0A / 0V	0A / 0V
Step 1 (Constant Current) Yellow	CC 2.0A ± 0.1A, when 10.5V < Vbat < 14.6V.	CC 1.3A ± 0.1A, when 21V < Vbat < 29.2V.
Step 2 (Constant Voltage) Flashing Yellow	CV 14.6V ± 0.2V, until I charge < 100mA or max. 1h.	CV 29.2V ± 0.2V, until I charge < 60mA or max. 1h.
Charge timer (step2, CV)	1h	1h
Safety timer (all steps) Red (5 blinks)	72h	72h
Step 3 (Maintenance voltage) Green	14.0V	28.0V
Restart voltage	13.2V	26.4V
Efficiency (at 100% load) approx.:	0.85	0.85
No load consumption	< 0,5 W	< 0,5 W
Switch frequency approx.:	35kHz	35kHz
Ripple:	< 100mV p-p	< 100mV p-p
Formation Charge (Step 0)	Low current start-up of deeply discharged battery.	Low current start-up of deeply discharged battery.
Float charge:	CC pulses at safe float voltage level for maximum topping of battery capacity.	CC pulses at safe float voltage level for maximum topping of battery capacity.
Indication when “Battery not connected”	Flashing Green (1s/1s)	Flashing Green (1s/1s)
Leakage current from battery with mains switched off:	<0.3 mA	<0.3 mA
Temperature compensation of charge voltage (optional):	0 – 45 °C: Normal charge. Battery temperature < 0 °C (too cold) or > 45°C (too hot): No charge, wait until temp. is OK.	0 – 45 °C: Normal charge. Battery temperature < 0 °C (too cold) or > 45°C (too hot): No charge, wait until temp. is OK.
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)	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 +40oC. Transport and short time storage: -25 to +85oC	Operating: -25 to +40oC. Transport and short time storage: -25 to +85oC
Safety:	Medical EN 60601-1 / Home Health care EN 60601-1-11/ Battery Charger EN 60335-2-29	Medical EN 60601-1 / Home Health care EN 60601-1-11/ Battery Charger EN 60335-2-29
Insulation class :	Class II	Class II
Insulation voltage: Primary – secondary:	4000VAC / 5700VDC	4000VAC / 5700VDC
EMC standards:	EN 55014-1 and –2, Emission EN 61000-6-3, Immunity EN 61000-6-1, EN 60601-1-2	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.	2-pins IEC 320 connector, C8.
Output terminals:	DC connector, Battery clips, Push-on terminals or open ends.	DC connector, Battery clips, Push-on terminals or open ends.
IP-Grade:	4X	4X
Rec. battery capacity:	1Ah (2C) to 10Ah (<100mA charge current as EoC detection)or up to 80Ah (utilizing the 1h CV timer as EoC detection)	0.5Ah (2C) to 6Ah (<60mA charge current as EoC detection) or up to 40Ah (utilizing the 4h CV timer as EoC detection)
Dimensions:	123.5 × 49.5 × 37 mm	123.5 × 49.5 × 37 mm
Weight:	220g	220g
Other:	CBC functionality: Configurable Battery Charger. Charging history: Log of latest charge cycles.	CBC functionality: Configurable Battery Charger. Charging history: Log of latest charge cycles.