

| SPECIFICATIONS FOR 3546 LiFe | 4c LiFeP04 | 8c LiFeP04 |
|--|--|--|
| 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. |