SPECIFICATIONS FOR 3546 LI	1-cell	2-cell	3-cell	4-cell	5-cell				
Available versions	x								
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz								
Max output power	10.5W	21W	27.7W	26.9W	28.4W				
Step 0 < 10min Yellow	CC 100mA ± 25mA, when battery voltage < 3V.	CC 100mA ± 25mA, when battery voltage < 6V.	CC 100mA ± 25mA, when battery voltage < 9V.	CC 100mA ± 25mA, when batt voltage < 12V.	CC 100mA ± 25mA, when battery voltage < 15V.				
Step 0 > 10min Red (4 blinks)	0A / 0V								
Step 1 (Constant Current) Yellow	CC 2.5A ± 0.3A, when 3V < Vbat < 4.2V.	CC 2.5A \pm 0.3A, when 6V < Vbat < 8.4V.	CC 2.2A ± 0.2A, when 9V < Vbat < 12.6V.	CC 1.6A ± 0.15A, when 12V < Vbat < 16.8V.	CC 1.35A ± 0.2A, when 15V < Vbat < 21.0V.				
Step 2 (Constant Voltage) Flashing Yellow	CV 4.2V ± 0.05V, until I charge < 100mA or max. 1h.	CV 8.4V ± 0.1V, until I charge < 100mA or max. 1h.	CV 12.6V ± 0.1V, until I charge < 100mA or max. 1h.	CV 16.8V ± 0.1V, until I charge < 100mA or max. 1h.	CV 21.0V ± 0.1V, until I charge < 100mA or max. 1h.				
Charge timer (step2, CV)	1h								
Safety timer (all steps) Red (5 blinks)	72h								
Step 3 (Charge Completed) Green	0A								
Restart voltage	4.1V	8.2V	12.3V	16.4V	20.5V				
Formation Charge (Step 0)	Low current start-up of deeply discharged battery.								
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)								
NTC input, on request (std is 10kohm, B- value approx. 4000)	0 – 45 °C: Normal charge. Battery temperature < 0 °C (too cold) or > 45°C (too hot): No charge, wait until temp. is OK.								
Ripple:	< 100mV p-p								
Efficiency (at 100% load) approx.:	70% 85%								
Switch frequency approx.:	35kHz								
Leakage current from battery with mains switched off:	< 300 µA at nominal battery voltage (< 0.22 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 limited to 100mA and terminated after 10min. 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. Storage: ÷25 to +85oC								
Safety:	Medical EN 60601-1 / Home Healthcare EN 60601-1-11 (VNOM≥110VAC) / Battery Charger EN 60335-2-29								
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:	2.5 Ah (1C) to 10Ah (<100mA charge current as EoC detection) or up to 100Ah (utilizing the 1h CV timer as EoC detection)	2.2Ah (1C) to 10Ah (<100mA charge current as EoC detection) or up to 88Ah (utilizing the 1h CV timer as EoC detection)	1.6 Ah (1C) to 10Ah (<100mA charge current as EoC detection) or up to 64Ah (utilizing the 1h CV timer as EoC detection)	1.35 Ah (1C) to 10Ah (<100mA charge current as EoC detection) or up to 54Ah (utilizing the 1h CV timer as EoC detection)	1.15 Ah (1C) to 10Ah (<100mA charge current as EoC detection) or up to 46Ah (utilizing the 1h CV timer as EoC detection)				
Dimensions:	123.5 × 49.5 × 37 mm								
Weight:	220g	220g							

SPECIFICATIONS FOR 3546 LI	6-cell	7-cell	8-cell	10-cell	14-cell				
Available versions	X								
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz								
Max output power	29W	29.4W	28.6W	29.4W					
Step 0 < 10min Yellow	CC 100mA ± 25mA, when batt voltage < 18V.	CC 100mA \pm 25mA, when batt voltage < 21V.	CC 100mA ± 25mA, when batt voltage < 24V.	CC 100mA ± 25mA, when batt voltage < 30V.	CC 60mA ± 15mA, when batt voltage < 42V.				
Step 0 > 10min Red (4 blinks)	0A / 0V								
Step 1 (Constant Current) Yellow	CC 1.15A ± 0.1A, when 18V < Vbat < 25.2V.	CC 1.0A ± 0.1A, when 21V < Vbat < 29.4V.	CC 0.85A ± 0.1A, when 24V < Vbat < 33.6V.	CC 0.7A ± 0.07A, when 30V < Vbat < 42V.	CC 0.5A ± 0.05A, when 42V < Vbat < 58.8V.				
Step 2 (Constant Voltage) Flashing Yellow	CV 25.2V ± 0.2V, until I charge < 100mA or max. 1h.	CV 29.4V ± 0.2V, until I charge < 100mA or max. 1h.	CV 33.6V ± 0.2V, until I charge < 100mA or max. 1h.	CV 42V ± 0.3V, until I charge < 100mA or max. 1h.	CV 58.8V ± 0.5V, until I charge < 75mA or max. 1h.				
Charge timer (step2, CV)	1h								
Safety timer (all steps) Red (5 blinks)	72h								
Step 3 (Charge Completed) Green	0A								
Restart voltage	24.6V	28.7V	32.8V	41V	57.4V				
Formation Charge (Step 0)	Low current start-up of deeply discharged battery.								
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)								
NTC input, on request (std is 10kohm, B- value approx. 4000)	0 – 45 °C: Normal charge. Battery temperature < 0 °C (too cold) or > 45°C (too hot): No charge, wait until temp. is OK.								
Ripple:	< 100mV p-p								
Efficiency (at 100% load) approx.:	85%								
Switch frequency approx.:	35kHz								
Leakage current from battery with mains switched off:	< 300 µA at nominal battery voltage (< 0.22 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 limited to 100mA and terminated after 10min. 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. Storage: ÷25 to +85oC								
Safety:	Medical EN 60601-1 / Home Healthcare EN 60601-1-11 (VNOM≥110VAC) / Battery Charger EN 60335-2-29								
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:	1Ah (1C) to 10Ah (<100mA charge current as EoC detection) or up to 40Ah (utilizing the 1h CV timer as EoC detection)	0.85Ah (1C) to 10Ah (<100mA charge current as EoC detection) or up to 34Ah (utilizing the 1h CV timer as EoC detection)	0.7Ah (1C) to 10Ah (<100mA charge current as EoC detection) or up to 28Ah (utilizing the 1h CV timer as EoC detection)	0.5 Ah (1C) to 7.5Ah (<75mA charge current as EoC detection) or up to 20Ah (utilizing the 1h CV timer as EoC detection)	0,3Ah (1C) to 5,6Ah (cut off current as EoC)				
Dimensions:	123.5 × 49.5 × 37 mm	123.5 × 49.5 × 37 mm							
Weight:	220g								