SPECIFICATIONS FOR 3540 LI	3-cell	4-cell	6-cell	7-cell	8-cell	9-cell
Available versions	x					
Input voltage: / Line frequency:	198 - 264VAC / 50Hz					
Max output power:	252W	294W	252W	294W	293W	
Step 0 < 10min (Yellow)	CC 1.0A ± 0.4A, when batt voltage < 9V.	CC 1.0A ± 0.2A, when batt voltage < 12V.	CC 0.8A ± 0.4A, when batt voltage < 18V.	CC 0.8A ± 0.2A, when batt voltage < 21V.	CC 0.5A ± 0.2A, when batt voltage < 24V.	CC 0.5A ± 0.2A, when batt voltage < 27V.
Step 0 > 10min (Red 4 blinks)	0A / 0V					
Step 1 Constant Current (Yellow)	CC 20A +0.2/-0.3A, when 9V < Vbat < 12.6V.	CC 17.5A +0.2/-0.3A, when 12V < Vbat < 16.8V.	CC 10A +0.2/-0.3A, when 18V < Vbat < 25.2V ±0.2V.	CC 10A +0/-0.3A, when 21V < Vbat < 29.4V.	CC 8.7A +0.1/-0.3A, when 24V < Vbat < 33.6V.	CC 7.7A +0.1/-0.3A, when 27V < Vbat < 37.8V.
Step 2 Const Voltage (Flashing Yellow)	CV 12.6V±0.1V < 14A until I charge < 1.0A or max. 2h.	CV 16.8V±0.1V < 12.4A until I charge < 1.0A or max. 2h.	CV 25.2V±0.2V < 8.8A, until I charge < 0.8A or max. 1h.	CV 29.4V ± 0.2V <8.8A until I charge < 0.8A or max. 1h.	CV 33.6V±0.2V < 7.5A until I charge < 0.5A or max. 1h.	CV 37.8V±0.2V < 6.0A until I charge < 0.5A or max. 1h.
Charge timer (step2, CV)	2h		1h			
Safety timer all steps (Red 5 blinks)	72h					
Step 3 Charge Completed (Green)	0A					
Restart voltage	12.3V	16.4V	24.6V	28.7V	32.8V	36.9V
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)					
Leakage current from battery with mains switched off:	< 150µA @ 12.6V	< 170µA @ 16.8V	< 140 µA @ 25.2V	< 170 µA @ 29.4V	< 170 µA @ 33.6V	< 190 µA @ 37.8V
Efficiency (at 100% load, 115V) approx.:	>91%		>92%			
Switch frequency approx.:	65kHz					
Ripple:	< 100mVp-p					
NTC input, on request (std. is 10kohm, B-value approx. (4000K)	0 – 45 °C: Normal charge. Battery temperature < 0 °C (too cold) or > 45°C (too hot): No charge, wait until temp. is OK. WAIT MODE INDICATIONS: Yellow with 1 red blink: Battery temperature is too low (<0°C) Yellow with 2 red blinks: Battery temperature is too high (>45°C)					
Protection:	Thermal protection. Prevents sparking. Short circuit proof. Error Indication: Red (3 blinks) Safety timer: 72h. Error Indication: Red (5 blinks) Protected against reversed polarity. Error Indication: Red (2 blinks) Charging of wrong lower voltage battery pack (e.g. 2-cell) will be limited to 1.0A 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 +65oC					
Derating:	Charge current automatically reduced to approx.14A at 40°C					
Safety:	EN 60601-1					
Insulation class:	Double insulated (Class II)					
Insulation voltage: Primary – secondary:	4000VAC / 5700VDC					
EMC standards:	EN 60601-1-2: 2015 (Edition 4)					
Input terminal:	2 pin IEC60320 or mains cable					
Output terminals:	Cord with open ends or XLR plug					
Protection against ingress (IP-code):	IP44					
Recommended battery capacity:	20 - 800Ah		10 - 400Ah		8,57 - 348Ah	7.7 -308Ah
Dimensions:	210 × 113 × 53 mm					
Weight approx.:	With mains cable 1400g. With IEC60320 1150g					

SPECIFICATIONS FOR 3540 LI	10-cell	11-cell	12-cell	13-cell	14-cell
Available versions	x				
Input voltage: / Line frequency:	198 - 264VAC / 50Hz				
Max output power:	294W	292W		284W	294W
Step 0 < 10min (Yellow)	CC 0.5A ± 0.1A, when batt voltage < 30V.	CC 500mA ± 50mA, when batt voltage < 33.0V.	CC 300mA ± 50mA, when batt voltage < 36.0V.	CC 300mA ± 50mA, when batt voltage < 39.0V.	CC 300mA ± 30mA, when batt voltage < 42.0V.
Step 0 > 10min (Red 4 blinks)	0A / 0V				
Step 1 Constant Current (Yellow)	CC 7.0A +0/-0.3A, when 30V < Vbat < 42.0V.	CC 6.3A +0.1/-0.3A, when 33.0V < Vbat < 46.2V.	CC 5.8A +0.1/-0.3A, when 36.0V < Vbat < 50.4V.	CC 5.2A +0.1/-0.3A, when 39.0V < Vbat < 54.6V.	CC 5.0A +0.1/-0.3A, when 42.0V < Vbat < 58.8V.
Step 2 Const Voltage (Flashing Yellow)	CV 42.0V±0.2V < 5.8A until I charge < 0.5A or max. 1h.	CV 46.2V < 5A until I charge < 500mA or max. 1h.	CV 50.4V±0.3V < 4.5A until I charge < 300mA or max. 1h.	CV 54.6V±0.3V < 3.9A until I charge < 300mA or max. 1h.	CV 58.8V±0.3V < 3.7A until I charge < 300mA or max. 1h.
Charge timer (step2, CV)	1h				
Safety timer all steps (Red 5 blinks)	72h				
Step 3 Charge Completed (Green)	0A				
Restart voltage	41.0V	45.1V	49.2V	53.3V	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)				
Leakage current from battery with mains switched off:	< 170 µA @ 42V	< 170 µA @ 46.2V	< 165 µA @ 50.4V	< 170 µA @ 54.6V	< 160 µA @ 58.8V
Efficiency (at 100% load, 115V) approx.:	>92%	>91%	>92%	>91%	>92%
Switch frequency approx.:	65kHz				
Ripple:	< 100mVp-p				
NTC input, on request (std. is 10kohm, B-value approx. (4000K)	0 – 45 °C: Normal charge. Battery temperature < 0 °C (too cold) or > 45°C (too hot): No charge, wait until temp. is OK. WAIT MODE INDICATIONS: Yellow with 1 red blink: Battery temperature is too low (<0°C) Yellow with 2 red blinks: Battery temperature is too high (>45°C)				
Protection:	Thermal protection. Prevents sparking. Short circuit proof. Error Indication: Red (3 blinks) Safety timer: 72h. Error Indication: Red (5 blinks) Protected against reversed polarity. Error Indication: Red (2 blinks) Charging of wrong lower voltage battery pack (e.g. 2-cell) will be limited to 1.0A 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 +65oC				
Derating:	Charge current automatically reduced to approx.14A at 40°C				
Safety:	EN 60601-1				
Insulation class:	Double insulated (Class II)				
Insulation voltage: Primary – secondary:	4000VAC / 5700VDC				
EMC standards:	EN 60601-1-2: 2015 (Edition 4)				
Input terminal:	2 pin IEC60320 or mains cable				
Output terminals:	Cord with open ends or XLR plug				
Protection against ingress (IP-code):	IP44				
Recommended battery capacity:	7 -280Ah	6.3 - 250Ah	5.8 - 230Ah	5.2 - 208Ah	5 - 200Ah
Dimensions:	210 × 113 × 53 mm				
Weight approx.:	With mains cable 1400g. With IEC60320 1150g				