

	4-cell	8-cell	9-cell	16-cell
Available versions	x			
Input voltage: / Line frequency	198 - 264VAC / 50Hz			
Max output power	292W	292W	295W	292W
Step 0 < 10min (Yellow)	CC 1.0A ± 0.2A, when batt voltage < 10.5V.	CC 0.8A ± 0.2A, when batt voltage < 21.0V.	CC 0.8A ± 0.2A, when batt voltage < 23.4V.	CC 300mA ± 50mA, when batt voltage < 41.6V.
Step 0 > 10min (Red 4 blinks)	0A / 0V			
Step 1 Constant Current (Yellow)	CC 20.0A +0.2/-0.3A, when 10.5V < Vbat < 14.6V.	CC 10A +0.1/-0.3A, when 21.0V < Vbat < 29.2V.	CC 9.0A +0/-0.3A, when 23.4V < Vbat < 32.85V.	CC 5.0A +0.1/-0.3A, when 41.6V < Vbat < 58.4V.
Step 2 Const Voltage (Flashing Yellow)	CV 14.6V±0.1V < 14.0A until I charge < 1.0A or max. 1h.	CV 29.2V±0.2V < 8.4A until I charge < 0.8A or max. 1h.	CV 32.85V±0.2V < 7.5A until I charge < 0.8A or max. 1h.	CV 58.4V±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	13.2V	26.4V	29.7V	52.8V
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 @ 14.6V	< 160 µA @ 29.2V	< 170 µA @ 32.85V	< 170 µA @ 58.4V
Efficiency (at 100% load, 115V) approx.	>90%	>92%	>92%	>91%
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	Charge current automatically reduced to approx. 7.0A at 40oC	Charge current automatically reduced to approx.5.0A at 40oC	Charge current automatically reduced to approx.3.0A at 40oC
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	10 - 800Ah	5 - 400Ah	4.5 - 360Ah	2.5 - 200Ah
Dimensions	210 × 113 × 53 mm			

Weight approx.

With mains cable 1400g. With IEC60320 1150g