

	6 V	12 V	24 V	36 V
Available versions	x	x	x	
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz			
Max output power	11 W	14.7 W	16.5 W	17.6 W
Step 0 < 30min Yellow	CC 100mA ± 25mA, Vbat < 5V.	CC 100mA ± 25mA, Vbat < 10.5V.	CC 100mA ± 25mA, Vbat < 21V.	CC 100mA ± 25mA, Vbat < 31.5V.
Step 0 > 30min Red (4 blinks)	0A / 0V			
Step 1 (Constant Current) Yellow	CC 1.5A ± 5%, 5V < Vbat < 7.35V.	CC 1A ± 5%, 10.5V < Vbat < 14.7V.	CC 0.56A ± 5%, 21V < Vbat < 29.4V.	CC 0.4A ± 10%, 31.5V < Vbat < 44.1V.
Step 2 (Constant Voltage) Flashing Yellow	CV 7.35V ±0.1V, I _{ch} <400mA or 4h.	CV 14.7V ±0.1V, I _{ch} <250mA or 4h.	CV 29.4V ±0.1V, I _{ch} <150mA or 4h.	CV 44.1V ±0.1V, I _{ch} <100mA or 4h.
Charge timer (step2, CV)	4h			
Safety timer (all steps) Red (5 blinks)	72h			
Step 3 (Maintenance voltage) Green	6.85V	13.7V	27.4V	41.1V
Restart voltage	6.5V	13.0V	26.0V	39.0V
Efficiency (at 100% load) approx.	0.8	0.82	0.84	0.84
No load consumption	< 0,5 W			
Switch frequency approx.	56kHz			
Ripple	< 100mV p-p			
Formation Charge (Step 0)	Low current start-up of deeply discharged battery.			
Float charge	Pulses at safe float voltage level for maximum topping of battery capacity.			
Indication when "Battery not connected"	Flashing Green (1s/1s)			
Leakage current from battery with mains switched off	< 300 µA at nominal battery voltage (< 0.22 Ah/month)			
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)			
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 / A/V and Comm. tech: EN/IEC/UL 62368-1			
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	7.5Ah (C/5) to 20Ah (<400mA charge current as EoC detection) or up to 75Ah (utilizing the 4h CV timer as EoC detection)	5Ah (C/5) to 12.5Ah (<250mA charge current as EoC detection) or up to 50Ah (utilizing the 4h CV timer as EoC detection)	2.8Ah (C/5) to 7.5Ah (<150mA charge current as EoC detection) or up to 28Ah (utilizing the 4h CV timer as EoC detection)	2.0Ah (C/5) to 5Ah (<100mA charge current as EoC detection) or up to 20Ah (utilizing the 4h CV timer as EoC detection)
Dimensions	108,5 × 49 × 29,3 mm			
Weight	150g			
Other	CBC functionality: Configurable Battery Charger. Charging history: Log of latest charge cycles.			

	48 V
Available versions	
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz
Max output power	17.6 W
Step 0 < 30min Yellow	CC 100mA \pm 25mA, Vbat < 42V.
Step 0 > 30min Red (4 blinks)	0A / 0V
Step 1 (Constant Current) Yellow	CC 0.3A \pm 5%, 42V < Vbat < 58.8V.
Step 2 (Constant Voltage) Flashing Yellow	CV 58.8V \pm 0.1V, I _{ch} <100mA or 4h.
Charge timer (step2, CV)	4h
Safety timer (all steps) Red (5 blinks)	72h
Step 3 (Maintenance voltage) Green	54.8V
Restart voltage	52.0V
Efficiency (at 100% load) approx.	0.84
No load consumption	< 0,5 W
Switch frequency approx.	56kHz
Ripple	< 100mV p-p
Formation Charge (Step 0)	Low current start-up of deeply discharged battery.
Float charge	Pulses at safe float voltage level for maximum topping of battery capacity.
Indication when "Battery not connected"	Flashing Green (1s/1s)
Leakage current from battery with mains switched off	< 300 μ A at nominal battery voltage (< 0.22 Ah/month)
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)
Temperature range	Operating: -25 to +40oC. Storage: -25 to +85oC
Safety	Medical EN 60601-1 / Home Healthcare EN 60601-1-11 (VNOM \geq 110VAC) / Battery Charger EN 60335-2-29 / A/V and Comm. tech: EN/IEC/UL 62368-1
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	1.5Ah (C/5) to 5Ah (<100mA charge current as EoC detection) or up to 15Ah (utilizing the 4h CV timer as EoC detection)
Dimensions	108,5 \times 49 \times 29,3 mm
Weight	150g
Other	CBC functionality: Configurable Battery Charger. Charging history: Log of latest charge cycles.