

	4c LiFePO4	5c LiFePO4	6c LiFePO4	8c LiFePO4
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz			
Max output power	42W			
Step 0 < 30min Yellow	CC 300mA ± 25mA, when batt voltage < 10.5V.	CC 300mA ± 25mA, when batt voltage < 13,13V.	CC 200mA ± 25mA, when batt voltage < 15.75V.	CC 150mA ± 25mA, when batt voltage < 21V.
Step 0 > 30min Red (4 blinks)	0A / 0V			
Step 1 (Constant Current) Yellow	CC 2.88A ± 0.18A, when 10.5V < Vbat < 14.6V.	CC 2.3A ± 0.15A, when 13.13V < Vbat < 18.25V.	CC 1.92A ± 0.19A, when 15.75V < Vbat < 21.9V.	CC 1.44A ± 0.15A, when 21V < Vbat < 29.2V.
Step 2 (Constant Voltage) Flashing Yellow	CV 14.6V ± 0.2V < 2.16A, until I charge < 300mA or max. 1h.	CV 18.25V ± 0.2V < 1.73A, until I charge < 300mA or max. 1h.	CV 21.9V ± 0.2V < 1.44A, until I charge < 200mA or max. 1h.	CV 29.2V ± 0.2V < 1.08A, until I charge < 150mA or max. 1h.
Charge timer (step2, CV)	1h			
Safety timer (all steps) Red (5 blinks)	72h			
Step 3 (Maintenance voltage) Green	14.0V	17.5V	21.0V	28.0V
Restart voltage	13.2V	16.5V	19.8V	26.4V
Efficiency (at 100% load) approx.	0.85			
No load consumption	< 0,5 W			
Switch frequency approx.	65kHz			
Ripple	< 100mV p-p			
Formation Charge (Step 0)	Low current start-up of deeply discharged battery.			
Indication when "Battery not connected"	Flashing Green (1s/1s)			
Leakage current from battery with mains switched off	<0.3 mA			
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.			
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, 10min. 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			
Safety	Medical EN 60601-1 / Home Health care EN 60601-1-11/ Battery Charger EN 60335-2-29. A/V and Comm. tech: IEC 62368-1			
Insulation class	Class II			
Insulation voltage: Primary – secondary	4000VAC / 5700VDC			
EMC standards	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.			
Output terminals	DC connector, Battery clips, Push-on terminals or open ends.			
IP-Grade	IP41 (IP67 on Request)			
Rec. battery capacity	1.44Ah (2C) to 30Ah (<300mA charge current as EoC detection) or up to 115Ah (utilizing the 1h CV timer as EoC detection)	1.15Ah (2C) to 30Ah (<300mA charge current as EoC detection) or up to 92Ah (utilizing the 1h CV timer as EoC detection)	0.96Ah (2C) to 20Ah (<200mA charge current as EoC detection) or up to 77Ah (utilizing the 1h CV timer as EoC detection)	0.72Ah (2C) to 15Ah (<150mA charge current as EoC detection) or up to 58Ah (utilizing the 1h CV timer as EoC detection)
Dimensions	131× 57,5 × 36 mm			
Weight	230g			
Other	CBC functionality: Configurable Battery Charger. Charging history: Log of latest charge cycles.			

	10c LiFePO4	11c LiFePO4	12c LiFePO4	13c LiFePO4
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz			
Max output power	42W			
Step 0 < 30min Yellow	CC 100mA ± 25mA, when batt voltage < 26.25V.	CC 100mA ± 25mA, when batt voltage < 28.88V.	CC 100mA ± 25mA, when batt voltage < 31.5V.	CC 100mA ± 25mA, when batt voltage < 34.13V.
Step 0 > 30min Red (4 blinks)	0A / 0V			
Step 1 (Constant Current) Yellow	CC 1.15A ± 0.12A, when 26.25V < Vbat < 36.5V.	CC 1.05A ± 0.12A, when 28.88V < Vbat < 40.15V.	CC 0.96A ± 0.11A, when 31.5V < Vbat < 43.8.2V.	CC 0.89A ± 0.1A, when 34.13V < Vbat < 47.45V.
Step 2 (Constant Voltage) Flashing Yellow	CV 36.5V ± 0.2V < 0.86A, until I charge < 100mA or max. 1h.	CV 40.15V ± 0.3V < 0.78A, until I charge < 100mA or max. 1h.	CV 43.8V ± 0.3V < 0.72A, until I charge < 100mA or max. 1h.	CV 47.45V ± 0.3V < 0.66A, until I charge < 100mA or max. 1h.
Charge timer (step2, CV)	1h			
Safety timer (all steps) Red (5 blinks)	72h			
Step 3 (Maintenance voltage) Green	35.0V	38.5V	42.0V	45.5V
Restart voltage	33V	36.3V	39.6V	42.9V
Efficiency (at 100% load) approx.	0.85			
No load consumption	< 0,5 W			
Switch frequency approx.	65kHz			
Ripple	< 100mV p-p			
Formation Charge (Step 0)	Low current start-up of deeply discharged battery.			
Indication when "Battery not connected"	Flashing Green (1s/1s)			
Leakage current from battery with mains switched off	<0.3 mA			
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.			
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, 10min. 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			
Safety	Medical EN 60601-1 / Home Health care EN 60601-1-11/ Battery Charger EN 60335-2-29. A/V and Comm. tech: IEC 62368-1			
Insulation class	Class II			
Insulation voltage: Primary – secondary	4000VAC / 5700VDC			
EMC standards	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.			
Output terminals	DC connector, Battery clips, Push-on terminals or open ends.			
IP-Grade	IP41 (IP67 on Request)			
Rec. battery capacity	058Ah (2C) to 10Ah (<100mA charge current as EoC detection) or up to 46Ah (utilizing the 1h CV timer as EoC detection)	0.52Ah (2C) to 10Ah (<100mA charge current as EoC detection) or up to 42Ah (utilizing the 1h CV timer as EoC detection)	0.48Ah (2C) to 10Ah (<100mA charge current as EoC detection) or up to 38Ah (utilizing the 1h CV timer as EoC detection)	0.44Ah (2C) to 10Ah (<100mA charge current as EoC detection) or up to 35Ah (utilizing the 1h CV timer as EoC detection)
Dimensions	131× 57,5 × 36 mm			
Weight	230g			
Other	CBC functionality: Configurable Battery Charger. Charging history: Log of latest charge cycles.			

	16c LiFePO4
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz
Max output power	42W
Step 0 < 30min Yellow	CC 80mA \pm 25mA, when batt voltage < 42V.
Step 0 > 30min Red (4 blinks)	0A / 0V
Step 1 (Constant Current) Yellow	CC 0.72A \pm 0.09A, when 42V < Vbat < 58.4V.
Step 2 (Constant Voltage) Flashing Yellow	CV 58.4V \pm 0.3V < 0.54A, until I charge < 80mA or max. 1h.
Charge timer (step2, CV)	1h
Safety timer (all steps) Red (5 blinks)	72h
Step 3 (Maintenance voltage) Green	56.0V
Restart voltage	52.8
Efficiency (at 100% load) approx.	0.85
No load consumption	< 0,5 W
Switch frequency approx.	65kHz
Ripple	< 100mV p-p
Formation Charge (Step 0)	Low current start-up of deeply discharged battery.
Indication when "Battery not connected"	Flashing Green (1s/1s)
Leakage current from battery with mains switched off	<0.3 mA
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.
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, 10min. 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
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Insulation class	Class II
Insulation voltage: Primary – secondary	4000VAC / 5700VDC
EMC standards	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.
Output terminals	DC connector, Battery clips, Push-on terminals or open ends.
IP-Grade	IP41 (IP67 on Request)
Rec. battery capacity	0.36Ah (2C) to 8Ah (<80mA charge current as EoC detection) or up to 29Ah (utilizing the 1h CV timer as EoC detection)
Dimensions	131× 57,5 × 36 mm
Weight	230g
Other	CBC functionality: Configurable Battery Charger. Charging history: Log of latest charge cycles.