

SPECIFICATIONS FOR 4041 LA

	6V Lead Acid	12V Lead Acid	18V Lead Acid	24V Lead Acid
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz			
Max output power	36,75W	42W	42W	42W
Step 0 < 30min Yellow	CC 630mA ± 25mA, when batt voltage < 5.25V.	CC 360mA ± 25mA, when batt voltage < 10.5V.	CC 240mA ± 25mA, when batt voltage < 15.75V.	CC 180mA ± 25mA, when batt voltage < 21V.
Step 0 > 30min Red (4 blinks)	0A / 0V			
Step 1 (Constant Current) Yellow	CC 5A ± 0.4A, when 5.25V < Vbat < 7.35V.	CC 2.86A ± 0.1A, when 10.5V < Vbat < 14.7V.	CC 1.9A ± 0.1A, when 15.75V < Vbat < 22.05V.	CC 1.43A ± 0.1A, when 21V < Vbat < 29.4V.
Step 2 (Constant Voltage) Flashing Yellow	CV 7.35V ± 0.1V, until I charge < 1A or max. 4h.	CV 14.7V ± 0.2V, until I charge < 571mA or max. 4h.	CV 22.05V ± 0.2V, until I charge < 381mA or max. 4h.	CV 29.4V ± 0.2V, until I charge < 286mA or max. 4h.
Charge timer (step2, CV)	4h			
Safety timer (all steps) Red (5 blinks)	72h			
Step 3 (Maintenance voltage) Green	6.85V	13.7V	20.55V	27.4V
Restart voltage	6.5V	13.0V	19.5V	26.0V
Efficiency (at 100% load) approx.	0.85	0.87	0.87	0.87
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.			
Float charge	CC 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	<0.3 mA			
Temperature compensation of charge voltage (optional)	-3.5mV/°C pr cell. Nominal charge voltage at 20°C. (min 2.2V/cell, max 2.67V/cell)			
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, 10 min. 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 +40°C. Transport and short time storage: -25 to +85°C			
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	25Ah (C/5) to 50Ah (<600mA charge current as EoC detection) or up to 250Ah (utilizing the 4h CV timer as EoC detection)	14,3Ah (C/5) to 28,6Ah (<500mA charge current as EoC detection) or up to 143Ah (utilizing the 4h CV timer as EoC detection)	9,52Ah (C/5) to 19Ah (<300mA charge current as EoC detection) or up to 95Ah (utilizing the 4h CV timer as EoC detection)	7,14Ah (C/5) to 71,4Ah (<250mA charge current as EoC detection) or up to 71,4Ah (utilizing the 4h 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.			