24.6.2025, mascot.no

SPECIFICATIONS FOR 4040 LA	12V Lead Acid	24V Lead Acid	36V Lead Acid	48V Lead Acid	
Available versions	X				
Input voltage: / Line frequency	90-264Vac 47-63Hz				
Active power factor correction:	Yes				
Max output power:	117.6W		117.2W	117.6W	
Step 0 < 30min Yellow	CC 800mA ± 50mA, when batt voltage < 10.5V.	CC 500mA ± 25mA, when batt voltage < 21V.	CC 300mA ± 25mA, when batt voltage < 31.5V.	CC 200mA ± 25mA, when batt voltage < 42V.	
Step 0 > 30min Red (4 blinks)	0A / 0V				
Step 1 (Constant Current) Yellow	CC 8.0A ± 0.2A, when 10.5V < Vbat < 14.7V.	CC 4.0A ± 0.2A, when 21V < Vbat < 29.4V.	CC 2.65A ± 0.2A, when 31.5V < Vbat < 44.1V.	CC 2.0A ± 0.2A, when 42V < Vbat < 58.8V.	
Step 2 (Constant Voltage) Flashing Yellow	CV 14.7V ± 0.2V < 5.5A until I charge < 1.3A or max. 4h.	CV 29.4V ± 0.2V < 2.8A until I charge < 0.65A or max. 4h.	CV 44.1V ± 0.2V < 1.5A until I charge < 0.45A or max. 4h.	CV 58.8V ± 0.2V < 1.4A until I charge < 0.35A or max. 4h.	
Charge timer (step2, CV)	4h				
Safety timer (all steps) Red (5 blinks)	72h				
Step 3 Float Charge voltage Green	13.7V	27.4V	41.1V	54.8.4V	
Restart voltage	13.0V	26.0V	39.0V	52.0V	
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.				
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)				
Temperature compensation of charge voltage:	-3.5mV/°C pr cell. Nominal charge voltage at 20°C. (min 2.2V/cell, max 2.67V/cell)				
Ripple:	< 100mV p-p				
Efficiency (at 230V 100% load) approx.:	91%				
Switch frequency approx.:	45-75kHz				
Leakage current from battery with mains switched off:	< 1 mA at nominal battery voltage (< 0.72 Ah/month)				
Protection:	Protected against reversed polarity. Error Indication: Red (2 blinks) Short circuit proof. Error Indication: Red (3 blinks) Charging of wrong lower voltage battery pack will be terminated after 30min (See step 0). Indication: Red (4 blinks) Safety timer. Error Indication: Red (5 blinks) Battery temperature too high >50°C: Error Red (7 blinks) No charge (or charge terminated) if connecting wrong battery pack with higher voltage. Indication: LED is OFF.				
Temperature range:	Operating: -25 to +40oC. Transport and short time storage: -25 to +85oC				
Derating at 40oC approx.:	5.5A	3.1A	1.8A	1.50A	
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. (Class I on request)				
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 or mains cable (3pins IEC 320 connector, C6 on request)				
Output terminals:	DC connector, Battery clips, Push-on terminals or open ends.				
IP-Grade:	41				
Rec. battery capacity:	40-400Ah	20-200Ah	13 -130Ah	10-100Ah	
Dimensions:	203.5 × 87 × 43.5 mm				
Weight:	775g				
Other:	CBC functionality: Configurable Battery Charger. Charg	CBC functionality: Configurable Battery Charger. Charging history: Log of 10 latest charge cycles. Automatic detection of diode in series with battery.			