

SPECIFICATIONS FOR 4440 LA	12V Lead Acid	18V Lead Acid	24V Lead Acid
Available versions	x		
Input voltage: / Line frequency	90 - 264VAC / 47 - 63Hz		
Max output power	29.4W	28.9W	29.4W
Step 0 < 30min Yellow	CC 100mA ± 25mA, when batt voltage < 10.5V.	CC 100mA ± 25mA, when batt voltage < 16V.	CC 100mA ± 25mA, when batt voltage < 21V.
Step 0 > 30min Red (4 blinks)	0A / 0V		
Step 1 (Constant Current) Yellow	CC 2.0A ± 0.1A, when 10.5V < Vbat < 14.7V.	CC 1.3A ± 0.1A, when 16V < Vbat < 22.05V.	CC 1.0A ± 0.1A, when 21V < Vbat < 29.4V.
Step 2 (Constant Voltage) Flashing Yellow	CV 14.7V ± 0.2V, until I charge < 500mA or max. 4h.	CV 22.05V ± 0.2V, until I charge < 300mA or max. 4h.	CV 29.4V ± 0.2V, until I charge < 250mA or max. 4h.
Charge timer (step2, CV)	4h		
Safety timer (all steps) Red (5 blinks)	72h		
Step 3 (Maintenance voltage) Green	13.7V	20.5V	27.4V
Restart voltage	13.0V	19.5V	26.0V
Efficiency (at 100% load) approx.:	0.8	0.82	0.84
No load consumption	< 0,5 W		
Switch frequency approx.:	35kHz		
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. 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:	EN IEC 63268-1		
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:	4X		
Rec. battery capacity:	10Ah (C/5) to 25Ah (<500mA charge current as EoC detection) or up to 100Ah (utilizing the 4h CV timer as EoC detection)	6.5Ah (C/5) to 15Ah (<300mA charge current as EoC detection) or up to 50Ah (utilizing the 4h CV timer as EoC detection)	5Ah (C/5) to 12.5Ah (<250mA charge current as EoC detection) or up to 100Ah (utilizing the 4h CV timer as EoC detection)
Dimensions:	123.5 × 49.5 × 37 mm		
Weight:	220g		
Other:	CBC functionality: Configurable Battery Charger. Charging history: Log of latest charge cycles.		