

Model 2745 LA

20 A max out • 110/230 VAC input

- 3-step charge control with microprocessor
- Low current start up of deeply discharged batteries (step 0)
- Protected against reversed polarity and short circuit proof
- Unaffected by fluctuations in mains voltage
- Smart temperature control: Silent temperature controlled fan with fan speed regulation
- Waterproof (IP67) version available
- Pulsing float charge



Available versions

12V / 20A

24V / 10A

Notes:

Desktop unit

Heat-sink casing

3-pin IEC 60320

Standard DC output cord:

Batteryclips + temp sense, AWG 12, L 1.35m, 3.5mm Red/Black,

UL 2468+2569

Autodetect 120/230 VAC

SPECIFICATIONS:	Mascot type 2745 Lead Acid Charger 12V	Mascot type 2745 Lead Acid Charger 24V
Input voltage: / Line frequency:	95 – 130VAC / 198 - 264VAC / 47 - 63Hz	95 – 130VAC / 198 - 264VAC / 47 - 63Hz
Max output power:	294W	294W
Charge control: Charge indication:		
Step 0 < 30min	Yellow	1.4A ± 0.5A, when battery voltage < 21.0V < 0.2A
Step 0 > 30min	Red (Error-mode)	(until Vbat = 29.4V) 10A ± 0.5A, when battery voltage > 21.0V
Step 1	Yellow	(until I charge < 1.4A or > 4h) 29.4V ± 0.1V and charge current is tapering
Step 2	Flashing Yellow	(until I charge > 10A) 27.4V ± 0.2V, supply current up to maximum 10A for possible parallel load
Step 3	Green	4h
Charge timer (step2):	2.5A ± 0.3A, when battery voltage < 10.5V < 0.2A	72h
Safety timer:	(until Vbat = 14.7V) 20A ± 0.5A, when battery voltage > 10.5V (until I charge < 2.5A or > 4h) 14.7V ± 0.1V and charge current is tapering	10A
Restart charge current:	(until I charge > 20A) 13.7V ± 0.2V, supply current up to maximum 20A for possible parallel load	20A
Temperature coefficient:	-3 to -4mV/C pr. cell	-3 to -4mV/C pr. cell
Formation Charge:	Low current start up of deeply discharged battery.	Low current start up of deeply discharged battery.
Float charge:	20A pulses at safe float voltage level for maximum topping of battery capacity.	10A pulses at safe float voltage level for maximum topping of battery capacity.
Indication when "Battery not connected"	Flashing Green (1s/1s)	Flashing Green (1s/1s)
Ripple:	< 100mV p-p	< 100mV p-p
Efficiency (at 100% load, 230V) approx.:	> 85%	> 85%
Switch frequency approx.:	67kHz	67kHz
Leakage current from battery with mains switched off:	< 0.6mA at 13V battery voltage (0.43Ah/month)	< 0.6mA at 26V battery voltage (0.43Ah/month)
Protection:	Protected against reversed polarity and short circuit proof. Safety timer. Charging of wrong lower voltage battery pack (e.g. 6V) will be limited to 2.5A and terminated after 30min.	Protected against reversed polarity and short circuit proof. Safety timer. Charging of wrong lower voltage battery pack (e.g. 12V) will be limited to 1.4A and terminated after 30min.
Temperature range:	Operating: +25 to +40°C. Storage: +25 to +85°C	Operating: +25 to +40°C. Storage: +25 to +85°C
Safety:	EN 60335-2-29	EN 60335-2-29
Insulation class:	Class I	Class I
Insulation voltage: Primary – secondary:	3750VAC / 5300 VDC	3750VAC / 5300 VDC
EMC standards:	EN 55014-1 and –2, Emission EN 61000-6-3, Immunity EN 61000-6-1	EN 55014-1 and –2, Emission EN 61000-6-3, Immunity EN 61000-6-1
Input terminal:	IEC320 connector	IEC320 connector
Output terminals:	Leads with battery clips	Leads with battery clips
IP-Grade:	20 (PCB with components are protected with coating)	20 (PCB with components are protected with coating)
Rec. battery capacity:	100 - 1000Ah	50 - 500Ah
Temperature control:	Temperature controlled fan.	Temperature controlled fan.
Dimensions:	245 × 186 × 63.5 mm	245 × 186 × 63.5 mm
Weight:	2.37kg	2.37kg

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