

## Model 2542 LA

2,2 A max out • 90-264 VAC input

- 3-step charge control with current detection as charge termination
- Universal input voltage (90-264 VAC)
- 2-pin IEC 320 mains connector
- Waterproof (IP67) version available
- Approvals:

- Medically certified

Safety: EN 60601-1 ed. 3.1

Home healthcare EN 60601-1-11

EMC: EN 60601-1-2 ed. 4

- UL approved

- MET

- Custom specifications on request:

Charging parameters, connectors, cords, logo print, housing/open frame/IP rating and certificates. For more information: [custom design info sheet](#)



### Available versions

12V / 2,2A

24V / 1,2A

#### Notes:

Plug-in unit

Exchangeable AC and DC plugs

Order plugs & mains cord separately

Standard DC output cord (exch. DC plugs):

Female conn. L 1.8m, AWG 18, OD: 2.7 X 5.4 Black w. white line, UL 2468

Mounting bracket available

Desktop unit available (2541)

Specifications for MASCOT type 2541/2542	6V	12V	Lead Acid versions		48V
			24V	36V	
Input voltage:	90 - 264VAC	90 - 264VAC	90 - 264VAC	90 - 264VAC	90 - 264VAC
Line frequency:	47 - 63Hz	47 - 63Hz	47 - 63Hz	47 - 63Hz	47 - 63Hz
Charge control:	Charge indication:				
Step 1 Charge current:	2.7A ±0.1A	2.2A ±0.1A	1.2A ±0.1A	0.8A ±0.05A	0.6A ±0.05A
Step 2 Charge voltage:	7.35V ±0.10V	14.7V ±0.15V	29.4V ±0.25V	44.1V ±0.25V	58.8V ±0.25V
- Charge current >:	Orange	1.20A ±0.1A	1.00A ±0.1A	0.50A ±0.1A	0.40A ±0.05A
- Charge current <:	Yellow	250mA ±20%	250mA ±20%	250mA ±20%	100mA ±20%
Step 3 Charge termination I <:	Green	6.85V ±0.10V	13.7V ±0.15V	27.4V ±0.30V	41.1V ±0.30V
Standby voltage:	6.85V ±0.10V	13.7V ±0.15V	27.4V ±0.30V	41.1V ±0.30V	54.8V ±0.40V
Max output power:	20W	32W	35W	35W	35W
Ripple:	<100mV p-p	<100mV p-p	<100mV p-p	<100mV p-p	<100mV p-p
Efficiency (at 100% load, 230V) approx.:	78%	84%	87%	87%	87%
Switch frequency approx.:	40kHz				
Leakage current from battery with mains switched off:	<250µA				
Protection:	Protected against reversed polarity and short circuit proof				
Temperature range:	Operating: +25 to +40°C / Storage: +25 to +85°C				
Safety:	EN 62368-1, EN 60601-1, UL 60601-1, EN 60335-2-29				
Insulation class :	Class II				
Insulation voltage: Primary – secondary:	4000VAC / 5700VDC				
EMC standards:	Med. EN 60601-1-2 / Emission EN 61000-6-3 / Immunity EN 61000-6-1				
MTBF at Ta = 30°C and full load: Calculated according to MIL – HDBK – 217F	>250 000 hours				
Mains connection:	2-pins IEC 60320 connector. (Exchangeable mains plugs EU, UK, US, AU available on type 2542).				
Output terminals:	Cord with/without plug. Exchangeable plugs available.				
IP-Grade:	41				
Dimensions:	107 x 67 x 37mm (117 x 75 x 44mm for type 2542)				
Weight:	250g (280g for type 2542)				

distributed by: