

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

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)



Available versions

12V / 2,2A 24V / 1,2A

MASCOT ELECTRONICS AS DATE 25.03.22 (versions in grey are on request only)

Dimensions:

Weight:

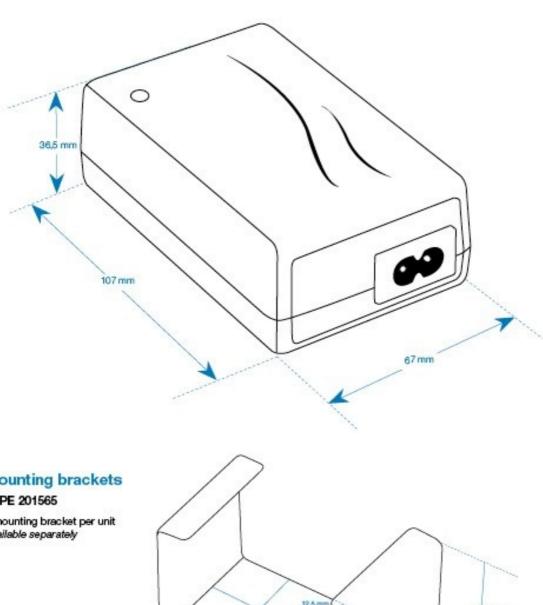
SPECIFICATIONS FOR TYPE 2541/2542 Lead Acid Battery Charger

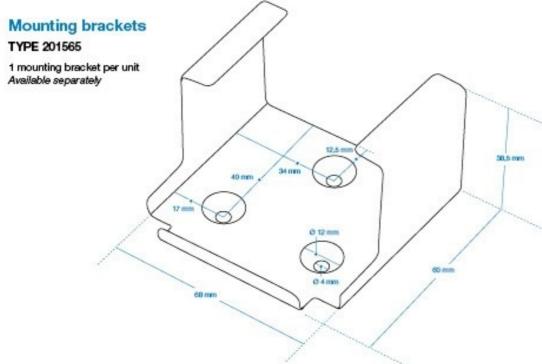
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Specifications for **Lead Acid versions** MASCOT type 2541/2542 6V 12V 24V 36V 48V Input voltage: 90 - 264VAC 47 - 63Hz Line frequency: Charge control: Step 1 Charge current: Charge indication: 2.7A ±0.1A 7.35V ±0.10V 1.2A ±0.1A 29.4V ±0.25V 0.8A ±0.05A 44.1V ±0.25V 2.2A ±0.1A 14.7V ±0.15V 0.6A +0.05A Orange Step 2 Charge voltage: 58.8V ±0.25V Charge current >:Charge current <: Orange Yellow 1.20A ±0.1A 1.00A ±0.1A 0.50A ±0.1A 0.40A ±0.05A 0.25A ±0.05A 250mA ±20% 250mA ±20% 250mA ±20% 250mA ±20% 100mA ±20% Step 3 Charge termination I < Green 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 <100mV p-p <100mV p-p <100mV p-p <100mV p-p <100mV p-p Ripple: Efficiency (at 100% load, 230V) approx.: 78% 84% 87% 87% 87% 40kHz Switch frequency approx.: Leakage current from battery with mains switched <250µA off: Protected against reversed polarity and short circuit proof Protection: Temperature range: Operating: ÷25 to +40°C / Storage: ÷25 to +85°C EN 62368-1, EN 60601-1, UL 60601-1, EN 60335-2-29 Safety: 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 2-pins IEC 60320 connector. (Exchangeable mains plugs EU, UK, US, AU available on type 2542). Mains connection: Output terminals: Cord with/without plug. Exchangeable plugs available. IP-Grade:

107 x 67 x 37mm (117 × 75 × 44mm for type 2542)

250g (280g for type 2542)





Charging method B

STEP 1 - BOOST CHARGE

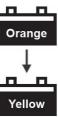
To start a charge cycle, connect the charger to the mains.

The charger is in constant current mode, charging with the maximum current indicated on the charger, the LED-indication on the charger is ORANGE.



STEP 2 - TOP-UP CHARGE

The charger is in constant voltage mode, charging with a decreasing current until the current is below the charger's charge termination level (indicated on the charger). The LED-indication will turn to YELLOW during Top-up charge. The battery is typically 90-95% fully charged when the LED indicator changes to yellow. The charger stays in this mode until the charge current decreases to charge termination level. The battery is charged to its full capacity at the end of this step.



STEP 3 - FLOAT CHARGE

The LED-indication on the charger is GREEN and the battery is fully charged.

The charger is in standby mode. The charge voltage is at standby level and the charger may remain connected to the battery.

The charger will return to boost charging if the battery is used.

A load larger than the cut-off current will initiate a new charge cycle.



Green

