



CURTIS

Power Conversion



Battery Chargers

Model 1625



Model 1625

Battery Chargers



The Curtis Model 1625 is ideal for use in utility, specialty golf, aerial lift and general industrial battery-powered vehicles. Model 1625 provides 1200 to 1500 Watts at output voltages of 48 and 72 VDC.

FEATURES

- ▶ Wide range AC mains input (85–265 VAC) allows use of one charger anywhere in the world and eliminates the need to stock and service multiple models.
- ▶ Convection cooling eliminates the need for a cooling fan, thereby increasing reliability and eliminating the need for fan replacement/service.
- ▶ Advanced, high-frequency, switchmode design allows more efficient (94%), faster charging and optimal charging independent of battery type or condition.
- ▶ IP66 protection allows reliable operation in harsh environments.
- ▶ Power Factor of >0.99 minimizes utility surcharges and optimizes the use of AC line power.
- ▶ Select from an extensive list of approved charge algorithms (default I_1 , I_2 , U , I_3).
- ▶ The chargers can store 10 separate algorithms which can be selected to match the specific batteries in use, thereby eliminating the need for multiple models and resulting in lower operating costs.
- ▶ Lightweight and compact size allows on-board use and offers space advantages over ferro-resonant chargers in traditional off-board installations.
- ▶ Extensive safety features such as reverse polarity and short circuit protection ensure safe operation for both the operator and the charger itself.
- ▶ Multi-color LED allows at-a-glance charge status determination.
- ▶ Battery temperature monitoring allows more accurate measurement and charging.

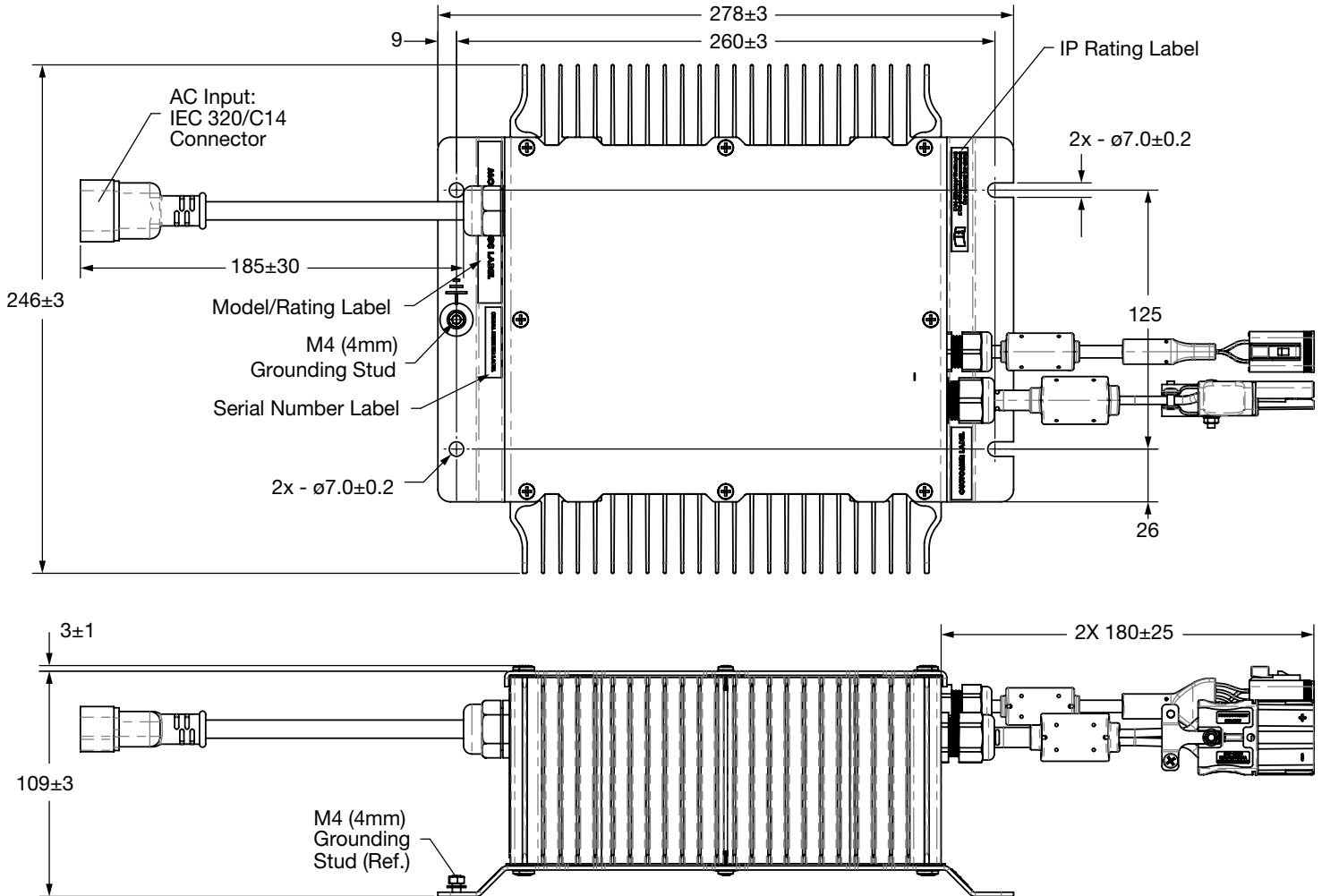


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DIMENSIONS mm



NOTES:

1. All dimensions ± 0.5 unless otherwise noted.
2. Mounting holes accept either 1/4" or metric M6 screws/bolts..

| Anderson Power Connector, SBS50: | |
|----------------------------------|------------|
| DC Output '+' | White Wire |
| DC Output '-' | Black Wire |

| Pin | Deutsch DT 8-PIN Plug Connector, DT06-08SA: |
|-------|---|
| PIN 1 | TEMPERATURE SENSOR + |
| PIN 2 | TEMPERATURE SENSOR - |
| PIN 3 | INTERLOCK NC |
| PIN 4 | INTERLOCK COM |
| PIN 5 | INTERLOCK NO |
| PIN 6 | LED + |
| PIN 7 | LED - |

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SPECIFICATIONS

| DC Output | 48 VDC | 48 VDC | 72 VDC | 72 VDC |
|--|--|---------------------|-------------|---------------------|
| | 110/120 VAC | 208 / 230 / 240 VAC | 110/120 VAC | 208 / 230 / 240 VAC |
| Maximum DC output power | 1200W | 1500W | 1200W | 1500W |
| Maximum DC output current | 25 A | 30 A | 17 A | 20 A |
| Maximum DC output voltage | 68 V | | 100 V | |
| Deep discharge recovery (minimum voltage) | 12 V | | 18 V | |
| Maximum interlock current | 1 A (5 A option) | | | |
| Battery type | Lead acid (Wet / AGM / GEL), lithium ion | | | |
| Reverse polarity | Electronic protection with auto-reset | | | |
| Short circuit | Electronic current limit | | | |

| AC Input | |
|------------------------------------|---|
| AC input voltage range | 108-265 VAC |
| Nominal AC input voltage | 120 VAC / 208 VAC / 230 VAC |
| Supported AC sources | Single / split-phase |
| AC input frequency | 45-65 Hz |
| Maximum / nominal AC input current | 12 A / 10.5 A @120 VAC; 9 A / 7 A rms @230 VAC |
| Nominal AC power factor | >0.99 @ 120 VAC; >0.98 @ 230 VAC |

| Regulatory | |
|------------|---|
| Efficiency | 94%; California Energy Commission (CEC) compliant |
| Safety | UL approved to UL1564 3rd Ed. and CSA 107.2, EN 60335-2-29 Designed to meet UL2202 1st Ed. |
| Emissions | FCC Part 15 / ICES 003 Class A, EN 55011 |
| Immunity | EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-4 |

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SPECIFICATIONS continued

| | | |
|---------------------|---|--|
| Mechanical | | |
| Dimensions | 28.0 x 24.6 x 11.0 cm (10.9 x 9.7 x 4.3") | |
| Weight | < 5 kg. (<11 lbs.) | |
| AC input connector | IEC320/C14 (requires country-specific cord) | |
| DC output connector | OEM specific with 12 AWG wire | |

| | | |
|-----------------------|---------------------------------|--------------------------------------|
| Environmental | | |
| Enclosure | IP66 (NEMA4) | |
| Operating temperature | -30°C to +50°C (-22°F to 122°F) | Derated at >30°C (86°F), <0°C (32°F) |
| Storage temperature | -40°C to +70°C (-40°F to 158°F) | |



WARRANTY Two year limited warranty from time of delivery.