

# NCC2500 Charger

## NeverDie® CANbus Charger Series



#20-302-24, #20-302-48  
#20-302-72, #20-302-96

### KEY BENEFITS

- + **High Efficiency:** >95% conversion efficiency and >0.99 power factor for maximum AC power utilization.
- + **Smart Charging Control:** CANBus integration with NeverDie®BMS for precise, optimized charging.
- + **Built-In Protection:** Short circuit, reverse polarity, voltage, and temperature safeguards.

### Advanced Charge Control

This high-efficiency charger pairs with the NeverDie® Battery Management System via CANBus for intelligent charge control, while its sealed IP66-rated housing stands up to tough environments. Built-in protections and easy status indicators keep you powered up with total confidence.



### NCC2500 Charger Details

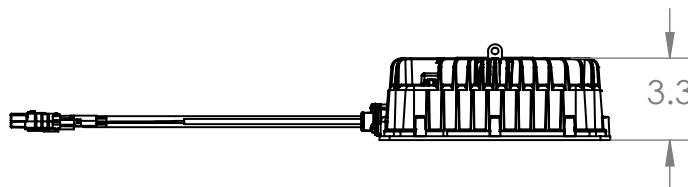
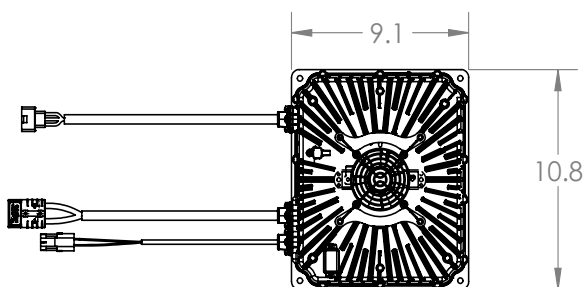
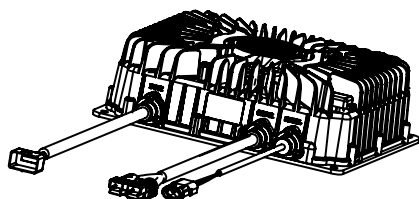
Use with NeverDie® BMS

Water Resistant & Compact Enclosure

LED Indication: Charging Stage & Error Reporting

### DIMENSIONS

|                  |                       |                            |
|------------------|-----------------------|----------------------------|
| Size (L x W x H) | 10.80" x 10.3" x 3.4" | 274.3mm x 261.6mm x 86.4mm |
| Weight           | 12.0 lbs              | 5.4 kg                     |



## SPECIFICATIONS

### AC INPUTS

|                          |               |
|--------------------------|---------------|
| AC Input Voltage Range   | 85VAC-265VAC  |
| AC Input Voltage Nominal | 120VAC/220VAC |

### ELECTRICAL

|                       |                      |
|-----------------------|----------------------|
| AC Power Factor       | > 0.99 @220VAC Input |
| AC Input Frequency    | 50Hz-60Hz            |
| Conversion Efficiency | ≥ 95% @220VAC input  |
| DC Voltage Accuracy   | ≤ 0.5%               |
| DC Current Accuracy   | ≤ 2%                 |

### MECHANICAL

|                       |                                  |
|-----------------------|----------------------------------|
| Environmental Rating  | IP66                             |
| Operating Temperature | -13°F to 131°F (-25°C to 55°C)   |
| Storage Temperature   | -40°F to 176°F (-40 °C to 80 °C) |

### NCC2500 24V CAT #20-302-24

|                                  |                 |
|----------------------------------|-----------------|
| DC Nominal Voltage               | 24V             |
| Max Output Current @110VAC Input | 40A (max 1.5kW) |
| Max Output Current @220VAC Input | 40A             |

### NCC2500 48V CAT #20-302-48 (covers both 48.0V and 51.2V systems)

|                                  |                 |
|----------------------------------|-----------------|
| DC Nominal Voltage               | 48V             |
| Max Output Current @110VAC Input | 25A (max 1.5kW) |
| Max Output Current @220VAC Input | 35A             |

### NCC2500 72V CAT #20-302-72

|                                  |                 |
|----------------------------------|-----------------|
| DC Nominal Voltage               | 72V             |
| Max Output Current @110VAC input | 25A (max 1.5kW) |
| Max Output Current @220VAC Input | 30A             |

### NCC2500 96V CAT #20-302-96 (covers both 96.0V and 102.4V systems)

|                                  |                   |
|----------------------------------|-------------------|
| DC Nominal Voltage               | 96V               |
| Max Output Current @110VAC Input | 12.5A (max 1.5kW) |
| Max Output Current @220VAC input | 25A (max 3kW)     |

## INCLUDED PARTS

Mating 120/240VAC Connector (AC Cable/Plug NOT Included)  
Mating Anderson SB50 DC Connector

### Powering Innovation.

Discover the right lithium replacement system for you. Reach out to Lithionics' expert support team to find your perfect power solution.