

# DC Battery Receptacle

- **TI2005-379 (Key A)**
- **TI2004-020 (Key B)**
- **TI2004-109 (Key C)**

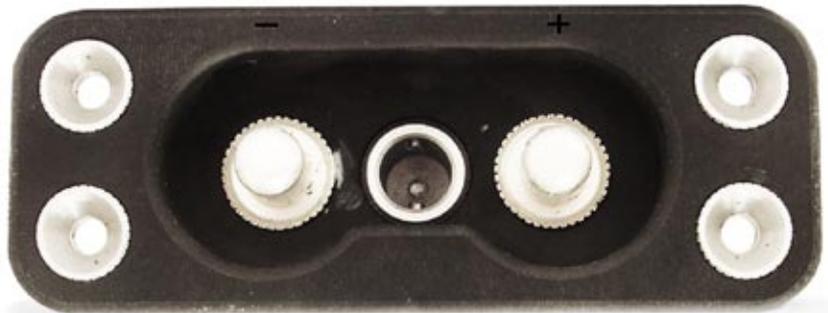


**Power Anytime, Anywhere**

The Tesla™ DC Battery Receptacle is the smart choice for your aviation and ground support needs. Constructed from a rugged combination of advanced composite materials and corrosion-resistant alloys, the Tesla™ DC Battery Receptacle provides a reliable, high current connection for virtually any electrical load. Tesla's™ in-house manufacturing means our receptacles are always in stock and available for immediate delivery. Key A is Military Standard MS3509.

## Features:

- Rated to 3000 peak amps
- UV, fuel, fungus, and oil resistant
- Manufactured in-house
- Exceeds MIL-STD-810
- Tested to withstand 50 G of force



\* TI2005-379 Pictured

<p>Key A <b>TI2005-379</b> / <b>NSN: 5935-01-594-9348</b></p> <p>Key A is compatible with Military Standard MS3509 and Tesla TI2005-410 DC Battery Connector. Key A comes standard with all Tesla™ 28 Vdc Ground Power Units and Aircraft Battery Systems..</p>	
<p>Key B <b>TI2004-020</b></p> <p>Only compatible with the TI2004-021 DC Battery Connector.</p>	
<p>Key C <b>TI2004-109</b></p> <p>Only compatible with the TI2004-108 DC Battery Connector.</p>	

**Tesla™ Industries, Inc.**  
[www.teslaind.com](http://www.teslaind.com) ♦ [www.tesla1.com](http://www.tesla1.com)  
 Email: [tesla1@teslaind.com](mailto:tesla1@teslaind.com)  
**Headquarters:** (302) 324-8910  
 101 Centerpoint Blvd. New Castle, DE 19720  
**Western Regional Office:** (775) 622-8801  
 9475 Double R Blvd. Suite 2, Reno, NV 89521



**The POWER  
 Of RED™**



# Features and Benefits

As Original Equipment Manufacturers, we understand the need for superior components to build rugged, reliable equipment that must perform under the harshest conditions. For this reason, each Tesla™ DC Battery Receptacle is manufactured to the strictest safety, quality and performance standards – creating the most reliable connector on the market.

## Rugged, Durable, Reliable

Made from virtually indestructible composite materials, the receptacle housing won't crack, melt, blister, dry-rot or disintegrate. This, in conjunction with corrosion resistant conductors, insures that the Tesla™ DC Battery Receptacle will still be in the field long after other receptacles have failed.

## Weatherproof Construction

The Tesla™ DC Battery Receptacle is manufactured with form-fitted and pressed components (see Figure 2). When properly mounted and gasketed, the receptacle becomes an impenetrable shield against rain, snow, sand and other harmful debris.

## Highly Conductive Contacts

Manufactured from highly conductive alloys (shown in Figure 3), the contacts can deliver up to 3000 amps of peak current when used in conjunction with our dc connectors.

## Good News for OEMs

With a two-year warranty, Tesla's™ DC Battery Receptacles are reliable, durable, and will easily integrate into your current product configuration. Best of all, they are in stock for immediate delivery. Call Tesla™ Customer Service at (302) 324-8910 for more details on volume pricing.



Figure 1: All Tesla™ MPU's and GPU's are fitted with Tesla™ DC Battery Receptacles

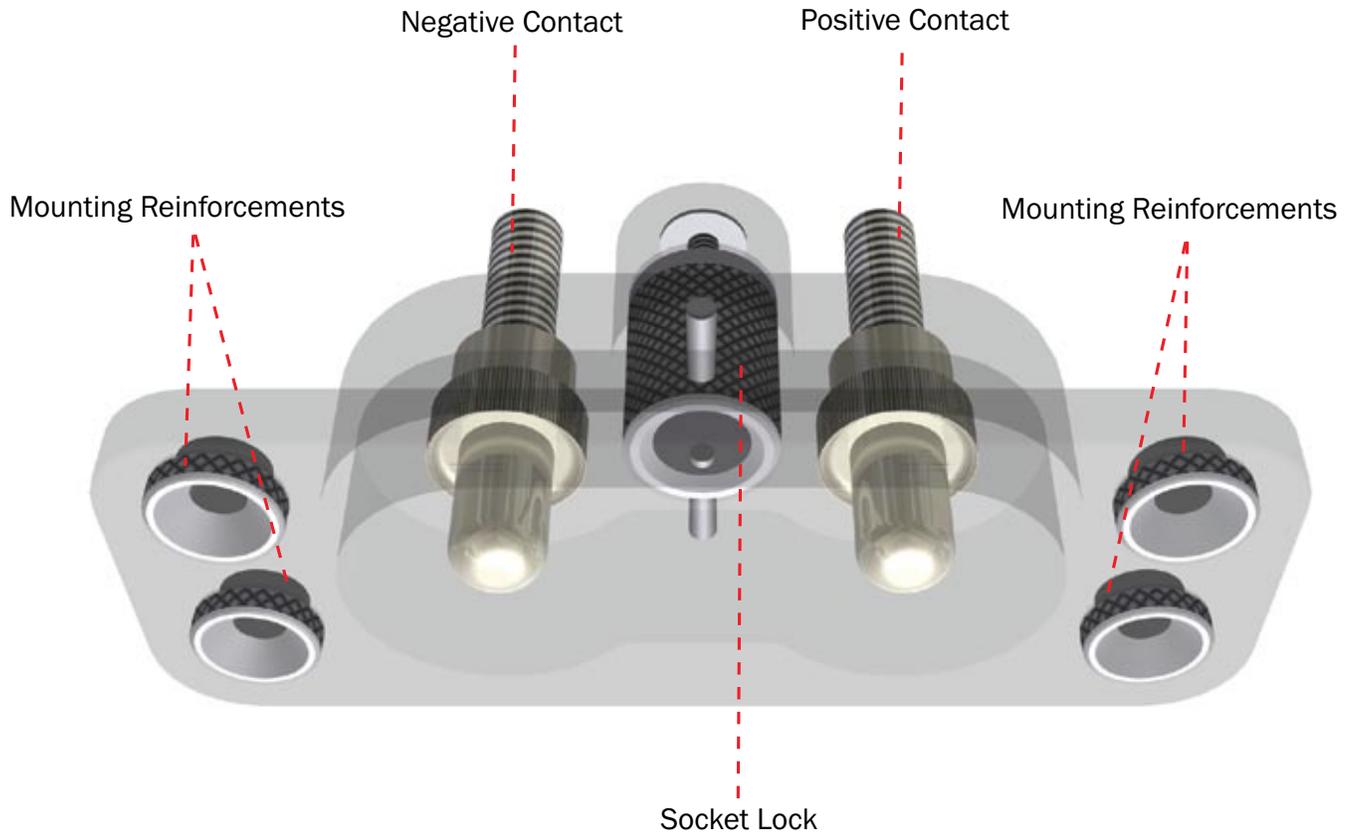


Figure 2: Tesla™ DC Battery Receptacle – Back View



Figure 3: Tesla™ DC Battery Receptacle – Contact View

# Components - Exploded View

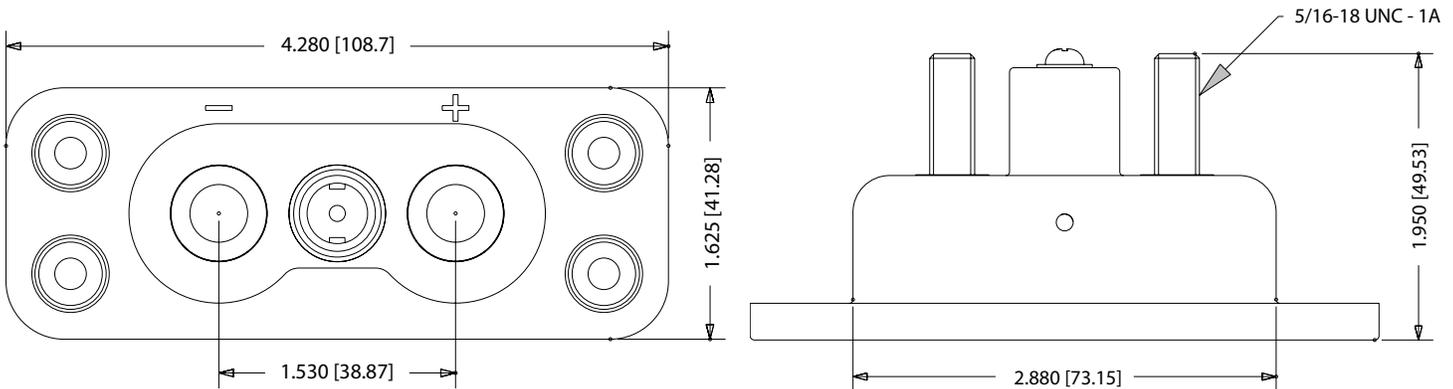


Attaching a dc plug to the Tesla™ DC Battery Receptacle is quick and easy.

**Step 1:** line up the plug with the receptacle. **Step 2:** push forward while rotating the T-handle one full turn clockwise. **Step 3:** The unit is now ready to safely transfer 1500 A.



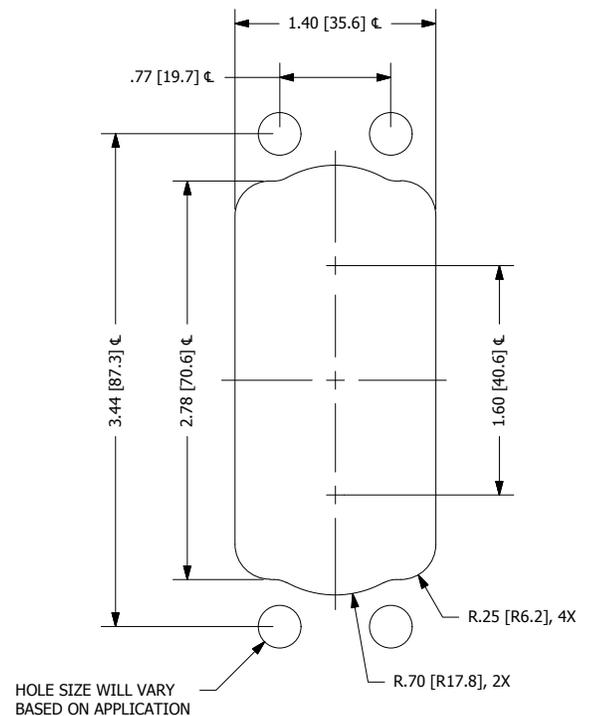
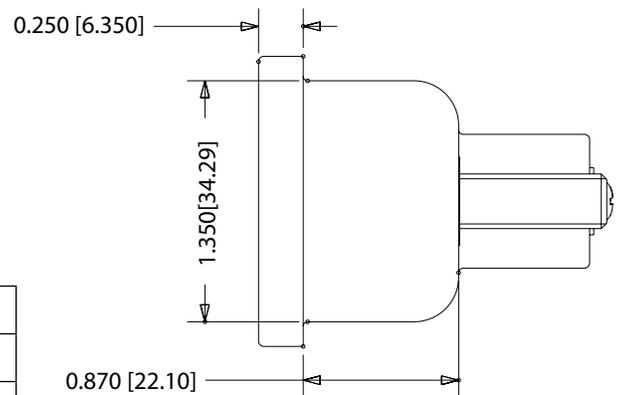
# Dimensions and Technical Specifications



\* All dimensions are in inches [millimeters]

## Technical Specifications:

Number of Contacts	2
Terminal Lugs	5/16-18
Mounting Hardware	10-24 or M5
Peak Current	3000 A
Storage Temperature	-65 °C - 125 °C (-85 °F - 257 °F)
Operating Temperature	-40 °C - 110 °C (-40 °F - 230 °F)
Air Gap-leakage Path	0.315" (8 mm)
Protection Class	IP28C (when properly mounted)
Rated Current	1500 A
Rated Voltage	18 - 32 Vdc
Inrush Current (@ 28 Vdc)	3000 A
Dielectric Strength	> 6000 Vdc for 1 min. across contacts
Insulation Resistance	4 GΩ w/1 kV across contacts
Contact Resistance	< 60 μΩ @ 25 °C
Shock	50 G
Vibration	Exceeds MIL-STD-810
Terminal Torque Specs	65 Inch-pounds
Weight	0.36 lbs (0.16 kg)
Warranty	2 years (3 years optional)



### Hole Dimensions

\* All dimensions are in inches [millimeters]