

Astrapi i Rack Mount Battery Module



Power Anytime, Anywhere

The Tesla™ Astrapi i Rack Mount Battery Module provides an efficient source of clean backup power for industrial control and communication equipment. Depending upon the model, the Battery Module uses two, four, or eight lead acid dry cell batteries to provide reliable DC power that will run, protect, and ultimately extend the life of equipment when power is lost. As always, the unit is backed by a Tesla™ 2-year warranty, a trained support team, and an experienced staff of customer service professionals.

Features:

- Maintenance-free design
- Dry Cell Batteries are not prone to Memory Effect
- Exceeds MIL-STD-810F/MIL-STD-461
- Fits in 3U rack space
- Conforms to EIA-310 standard
- Load shedding ability
- DC output capable of delivering up to 48 Volts at 46 amp hours (depending on model)
- Communications Interface to connect with other Tesla™ Astrapi i Modules

Models: (see specific configurations in technical specifications section)

Batteries	12 Volt	24 Volt	48 Volt
2 Batteries	AST200-12	AST200-24	-----
4 Batteries	AST400-12	AST400-24	AST400-48
8 Batteries	AST800-12	AST800-24	AST800-48



The POWER
Of
RED™



Battery Module Features and Benefits

Push To Test Button

The Push to Test Button can be pushed to determine the load capacity of the power cells. This allows the user to determine if there is enough power to operate equipment in a backup capacity.

Status Meter

The Charge Status Meter gives a visual indication of the power cells' charge state. Easy to understand color coding makes it simple to see whether the power cells are fully charged, at half power, or low.

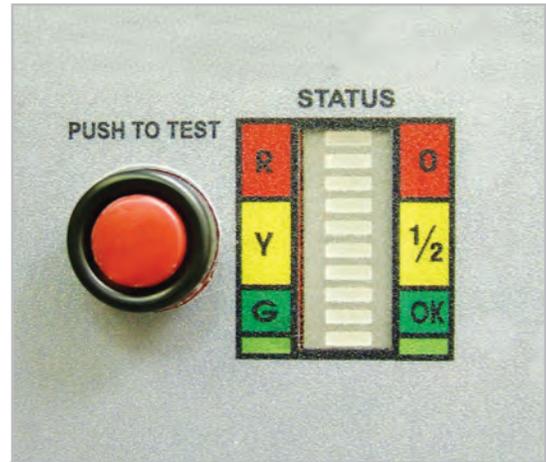


Figure 1: Push to Test/Status Meter

DC Output Circuit Breaker or DC Output ON/Off Buttons

Depending on the Model, the DC Output Circuit Breaker or the DC Output On/Off Buttons serve as a power "On/Off" switch for the Battery Module. The breaker also protects the system by tripping when the DC Output exceeds the recommended amperage – which varies depending on the model. See Battery Module Configurations for details.

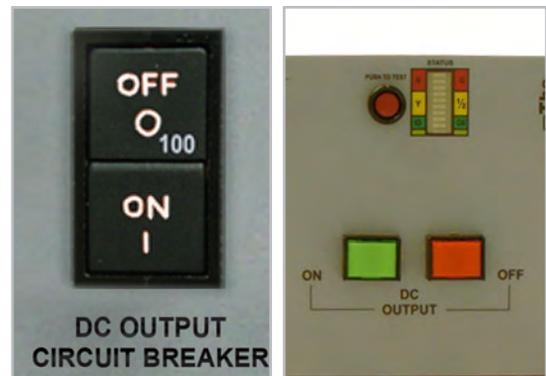


Figure 3: DC Output Circuit Breaker or DC Output On/Off Buttons

DC Output and Interface Connector

Depending upon the model, the DC Output safely provides up to 46 amp hrs. @ 48 VDC. An optional second DC Output can also be added to meet specific power needs.

The Interface Connector works in conjunction with the Power Supply Module to monitor the PSM's state of charge. The Interface Connector also protects the batteries by shutting off the Battery Module when the batteries are at 20% charge. The batteries are then recharged and the module reengages when the batteries are at 80% charge.

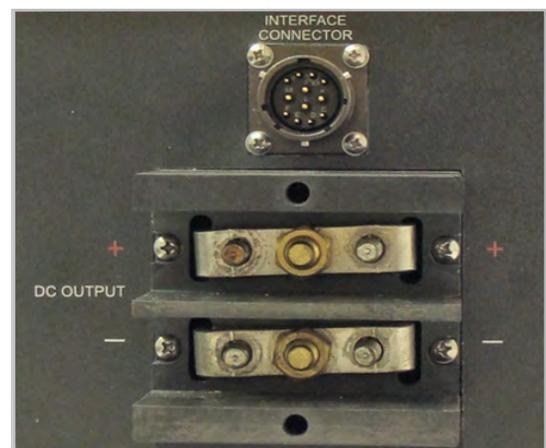
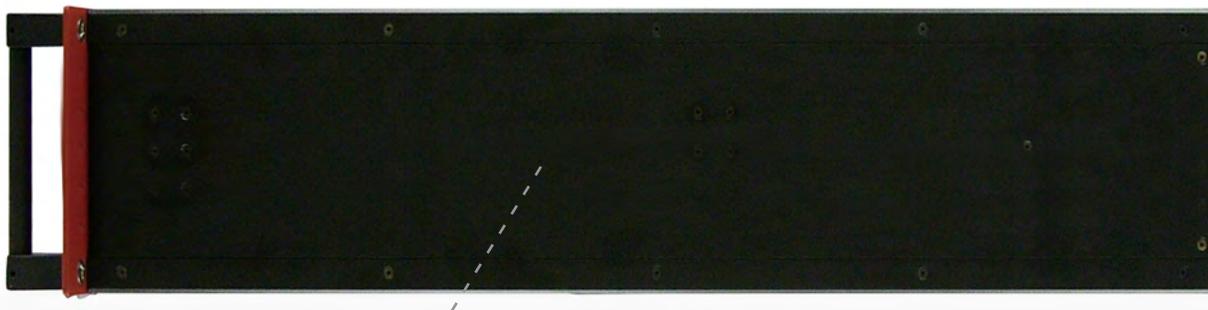
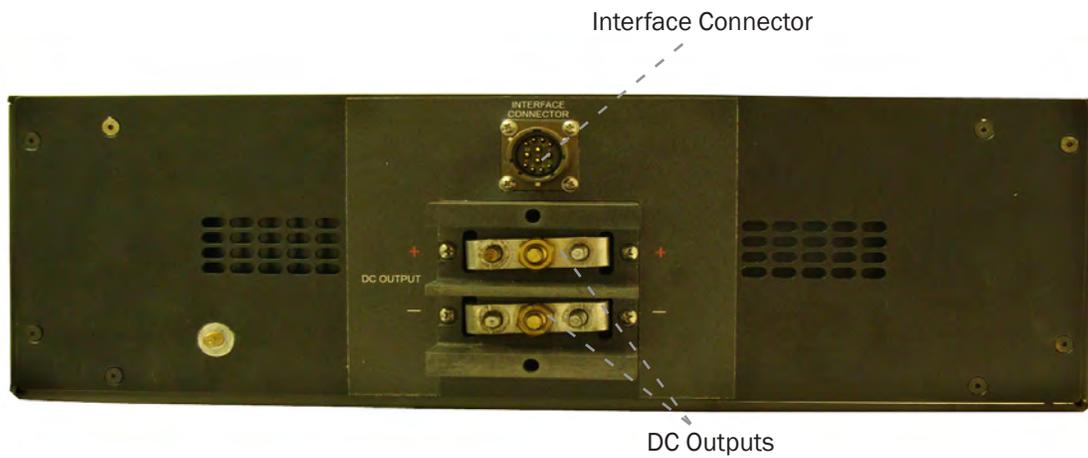
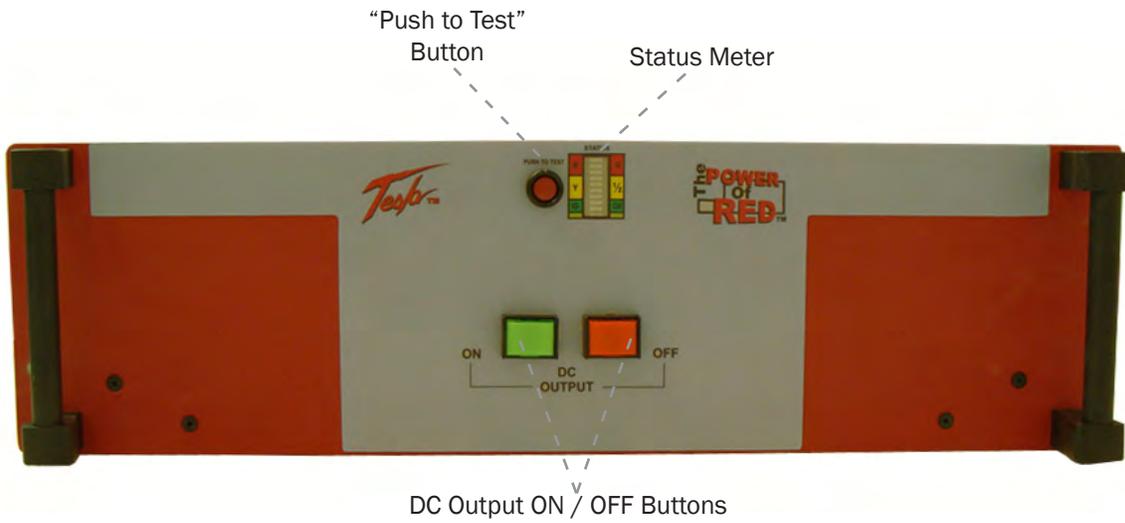
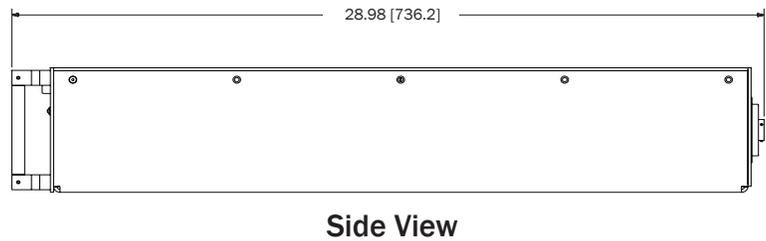
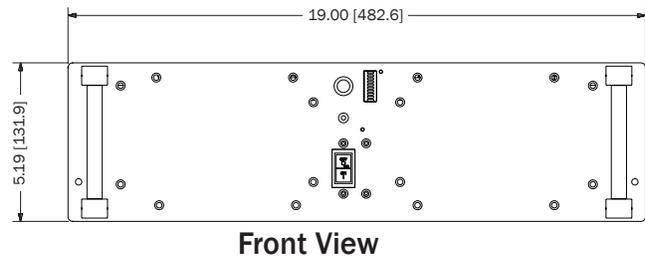
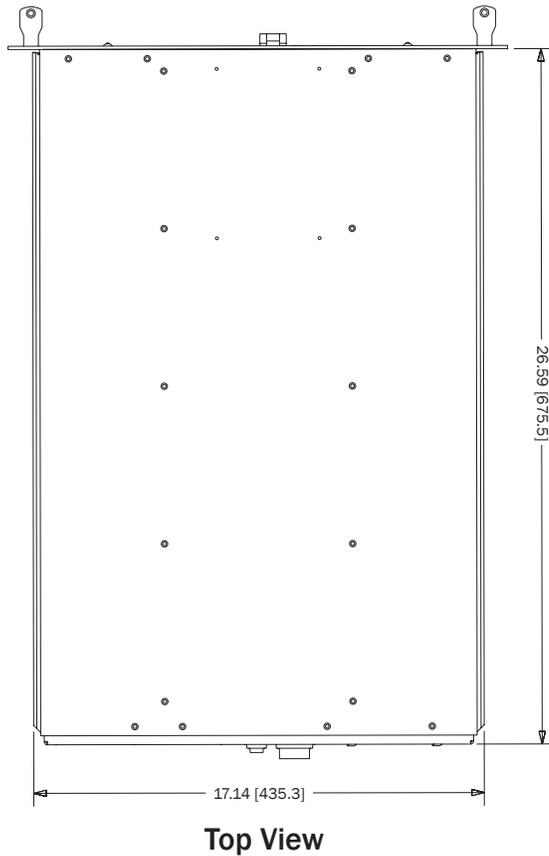


Figure 4: Interface Connector (center) and optional Dual DC Outputs

Battery Module Components - Exploded View



Dimensions and Technical Specifications



Technical Specifications:

Storage Temperature	-65°C - +60°C (-85°F - 140°F)
Operating Temperature	-40°C - +60°C (-40°F - 140°F)
Vibration	Exceeds MIL-STD-810F
Weight	56 lbs. (25.40 kg) - with 2 batteries 99.5 lbs. (45.13 kg) - with 4 batteries 186 lbs. (84.59 kg) - with 8 batteries

Battery Module Configurations:

2 Batteries		
Volts	Amp Hours	Watt Hours
12	46	552
24	23	552

4 Batteries		
Volts	Amp Hours	Watt Hours
12	92	1104
24	46	1104
48	23	1104

8 Batteries		
Volts	Amp Hours	Watt Hours
12	184	2208
24	92	2208
48	46	2208