

TRIDENT BATTERY SYSTEMS

Maximum Power at Maximum Cycle Life

Advanced Battery Systems

Teledyne Energy Systems has dedicated the last 50 years to providing power solutions that are designed to operate in extreme environments. This expertise is now focused on providing a battery solution, the Trident Battery Systems. The Trident Battery Systems are a family of battery packs that are ready to power your application in extreme environments. This family of battery packs features an innovative passive cooling technology that allows them to operate at high charge and discharge rates with minimum impact to battery cycle life, thereby supplying maximum power at maximum cycle life.

FEATURES

- Robust, modular and scalable
- Plug & play with SOC & SOH gauge
- Adaptive BMS
- Active cell/module balance
- Advanced temperature management
- RS485/CAN communications
- IP 68

Power for Extreme Environments



INDUSTRIAL



UUV/MARINE



FIRE/POLICE



UPS/EMERGENCY



DRONE



MILITARY

Teledyne at a Glance

- Our Mission: to be a leader in energy & power system technology solutions for challenging applications.
- Over 35 years of experience with battery, fuel cell, and electrolysis systems.
- We provide application-specific power solutions that integrate seamlessly and augment the application functionality.
- We specialize in harsh and difficult environments.
- Power system markets served - defense, aerospace, maritime, agriculture, ups, medical and robotics.
- US high quality manufacturing and testing facilities.
- Customer oriented product support and services.
- We stand behind our products.
- World class engineering and product development capabilities.
- ISO 9001

Optimal Energy Storage Solutions for any Application

Application Specific



MODULES 14 V TO 44.3 V



INTEGRATED SYSTEMS 44 V/8 kWh

VOLTAGE
Module (nominal) 14.8 V–43.8 V
System (nominal) 43.8 V– 613 V
POWER
Discharge (continuous/pulse) 26 A (2C) / 180 A (30C)
Charge 2C @ > 10 °C, < 45 °C
ENERGY
Module (nominal) 13 Ah / 569 Wh
System (nominal) 182 Ah / 8 kWh
> 230 Wh/Kg

Order Configuration Reference

08-2SB-3F-3D-2A

A **B** **C** **D** **E** **F** **E** **G** **H** **I**

A: NUMBER OF MODULES

Blank—single
02 to 12

B: CONFIGURATION

1–4S3P
2–6S3P
3–8S3P
4–10S3P
5–12S3P

C: SYSTEM CONFIGURATION

P—Parallel-terminated
S—Series-terminated
I—Individual termination

D: CELL TYPE

A—NMC
B—LFP
C—LI-MN

E: CABLE LENGTH

1–6 in
2–12 in
3–18 in
4—Custom
5—Fixed Header

F: POWER CONNECTOR

A–6325G1
B–6321G1
C–6325G1
D–6800G2
E–6331G1
F–XT90-F
G–XT60-F
H–DeansTP-F
I–HXT-F

G: COMM CONNECTOR

A–JST/BEC-M
B–JST/BEC-F
C–JST-XHR (XH)-M
D–JST-XHR (XH)-M
E–JST-EHR (EH)-M
F–JST-EHR (EH)-F
G–HP/PQ-M
H–HP/PQ-F

H: IBMS

1—Standard
2—Active Cell Balance
3—BMS Supervisor

I: COMM

A—Standard
B—RS485
C—CAN BUS

Module Voltage (VDC)	14.6	21.9	29.2	36.5	43.8
Configuration	4S3P	6S3P	8S3P	10S3P	12S3P
Length A (in)	5.97	8.58	11.19	13.80	16.41
Height B (in)	2.44	2.44	2.44	2.44	2.44
Width C (in)	1.65	1.65	1.65	1.65	1.65



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