

Crash Battery

Compact Battery for SLICE and TDAS Data Acquisition Systems



Compact and ruggedized, the Crash Battery provides pass-through power and battery backup for TDAS PLUS Mini Distributor, TDAS PRO, TDAS G5, and SLICE data acquisition systems.

Distributing power with integrated backup is easy with the Crash Battery from DTS. Using standard connectors and 15 V input power, the Crash Battery will provide power and back-up large systems for 1 hour or more. When used with a 10-36 V TDAS PLUS Mini Distributor, power, communication and control signals are distributed to TDAS and SLICE systems, including all DTS in-dummy DAS. Plus, the Crash Battery includes comprehensive protection for over-current, under-voltage, over-voltage and excess temperature conditions.

APPLICATIONS

- Occupant safety testing
- Aerospace testing
- Automotive safety
- Biomechanics
- Durability testing
- Military crew protection
- Ride & handling
- Vehicle crash & sled testing

PRODUCTS

Diversified Technical Systems designs and manufactures data acquisition systems and sensors for the experienced test professional.

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 Lincoln, United Kingdom
 Tokyo, Japan

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Features

- Pass through power for TDAS PLUS Mini Distributor via 4-pin Amphenol connector
- Pass through power and distribution for data acquisition systems via eight 4-pin LEMO connectors
- Low battery condition indicated through status fault on TDAS and SLICE interfaces
- Battery backup for 1 hour or more depending on system configuration
- Automatically switches to battery power if main power is lost
- Battery capacity and charge status displays on front panel LEDs
- Complete charge in ~4 hours
- Mounting interface identical to TDAS PLUS Mini Distributor
- Low-profile piezo switch for ON/OFF power
- Durable aluminum housing; 100 g shock-rated

Specifications

MECHANICAL / ENVIRONMENTAL	
Dimensions:	40 x 118 x 235 mm (1.6 x 4.6 x 9.25 in)
Mass:	1.925 kg (4.25 lb)
Enclosure:	Aluminum
Mounting Bolts:	M8 x 1.25
Shock Rating:	100 g peak, 12 msec half sine
Temperature:	0-40°C (32-104°F)
BATTERY	
Type:	Lithium polymer
Capacity:	13 Ah
Protection:	Under/over-voltage/current; reverse polarity
INPUT	
Connector:	4-pin Amphenol MS3476L14-4P
Voltage:	15 VDC nominal; 13.5-16.0 VDC required to charge internal battery
Pass-through range:	9-16 VDC (input to auxiliary outputs)
Total power:	375 W
MAIN OUTPUT	
Connector:	4-pin Amphenol MS3476L14-4S
Voltage w/ext power:	15 VDC nominal; equal to input power
Voltage from battery:	10.8 VDC nominal; 9-12.6 VDC
Maximum current:	15 A (shared with auxiliary outputs)
Maximum power:	250 W (shared with auxiliary outputs)
AUXILIARY OUTPUTS	
Connector:	Eight, 4-pin LEMO ECG.2B.304.CLL
Voltage w/ext power:	15 VDC nominal; output = input from 9-16 VDC
Voltage from battery:	10.8 VDC nominal; 9-12.6 VDC
Maximum current:	4 A per connector; 15 A total (shared with main output)
Maximum power:	250 W total (shared with main output)



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 Specifications subject to change without notice.
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