

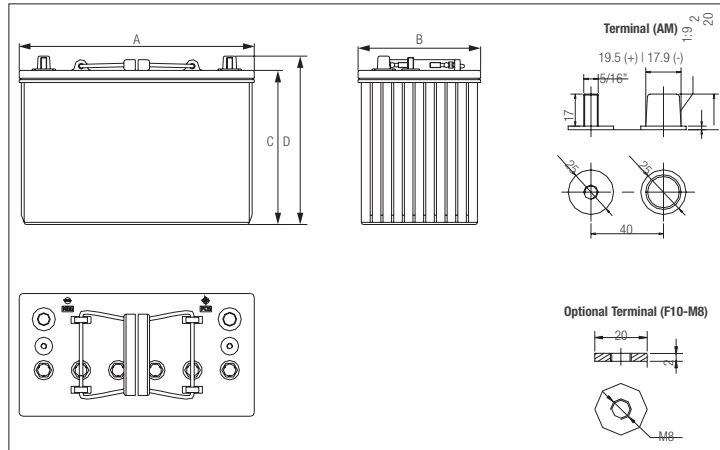
EV Traction Dry Cell Industrial Battery Block

TrylecHD Green Series EV Series Industrial Batteries provide superior high integrity and reliability for commercial, industrial and private applications. The maintenance-free, thick plate construction, designed for tough applications and repeated deep discharging, makes the EV Series the definitive choice for robust traction applications including Home Medical Equipment (HME), Electric Vehicle, Automated Guided Vehicles (AGV), Aerial Lifts, Floor Cleaning Equipment, Robotics, Materials Handling, Renewable Energy and Marine/RV applications.



T127412797

Mechanical Drawings



Mechanical Specifications

Industry Reference	31	
Length (A)	330 mm	
Width (B)	172 mm	
Height (C)	216 mm	
Total Height (D)	236 mm	
Weight	33 kg	
Terminal (Opt'l)*	AM (F10-M8)	
Cell(s)	6	
Electrolyte	1.2875 S.G.	AGM

*TERMINAL TORQUE: Please refer to our document available, on request.

Benefits & Features

- Maintenance-Free Clean & Green® choice of Original Equipment Manufacturers.
- Traction heavy duty grid design (PbCaSn) gives consistent active material adhesion and corrosion resistance.
- High impact reinforced copolymer and polypropylene cases with flat top designs.
- A recognized gas recombination efficiency of greater than 99.9%.
- Multiple terminal, configuration options and carrying handles available with most models.
- Classified as a non-spillable battery and is not restricted for transportation by:
 - Air (IATA/ICAO provision 67)
 - Ground (STB, DOT-CFR-HMR49)
 - Water (IMDG amendment 27)
- Compatible with sensitive electronic equipment.
- Comprehensive design to conserve resources, improve safety and reduce waste. 98% recyclable.

Certified Quality

Designed in accordance with and published in compliance with applicable BCI, IEC and BS EN standards, including:

- IEC60896-21/22
- BS EN 60254-1:2005
- AS/NZS 4029.2:2000

TrylecHD Green Series and its facilities and products are certified to multiple standards:

- ISO, UL, QS and TUV standards
- ETTS Germany
- Euro Bat classification for Environmental Stewardship Standards



Electrical Specifications

Voltage	12 V	
80% DOD Voltage Cutoff	11.4 V	
Internal Resistance	3.40 mΩ	
Short Circuit (20°C 68°F)	3270 A	
Self Discharge	Less than 3% per month (20°C 68°F)	
Cranking Amps**	940 @ 0°C (32°F)	785 @ -18°C (0°F)
Charge Temperature	Min: -10°C (14°F) Max: 50°C (122°F)	
Discharge Temperature***	Min: -20°C (-4°F) Max: 50°C (122°F)	
Storage	Min: -20°C (-4°F) Max: 60°C (140°F)	

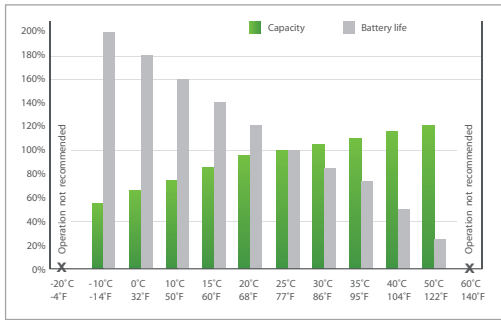
**CRANKING AMPS: Cranking amps data is provided as a reference only. Specific application sizing and life factors must be considered when using deep cycle product in a starting application.

***CAUTION: Extra consideration must be given to depths of discharge, operating voltages and currents when designing systems for use at maximum temperatures.

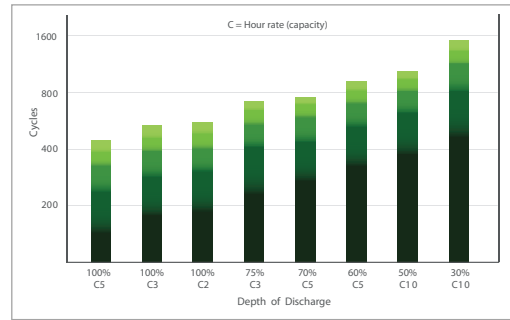
ELECTRICAL SPECIFICATIONS

Amp Hours (AH)						Minutes of Discharge				
100 hr	20 hr	10 hr	5 hr	3 hr	1 hr	@25 A	@56 A	@75 A	@85 A	@100 A
132	115	110	96	88	72	235	89	63	52	42
Maximum Current	Peak (5 seconds)		Peak (10 seconds)		Continuous		Recommended Continuous			
Charge	1C10 hr		0.75C10 hr		0.5C10 hr		0.3C10 hr			
Discharge	2C10 hr		1.5C10 hr		1.5C10 hr		0.5C10 hr			

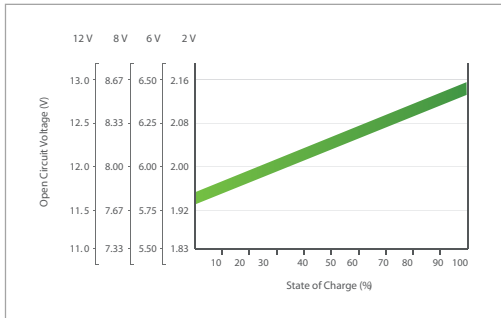
TEMPERATURE EFFECTS ON CAPACITY



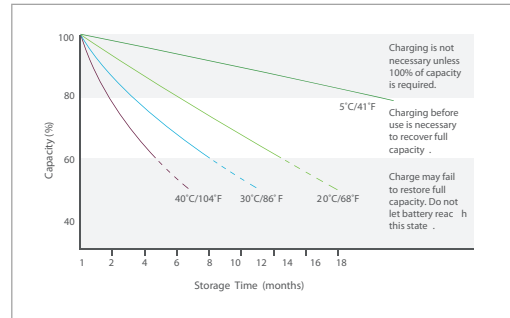
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE (25°C)



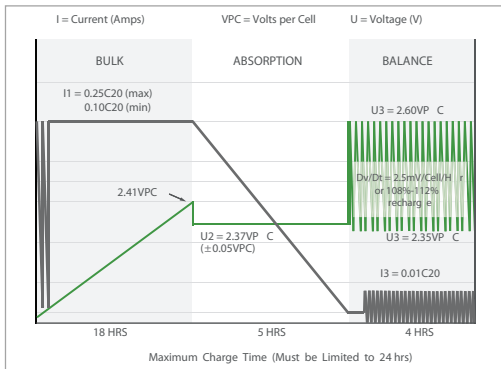
OPEN CIRCUIT VOLTAGE IN RELATION TO THE STATE OF CHARGE (20°C)



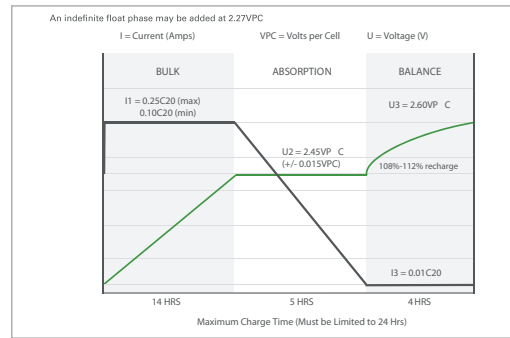
SELF-DISCHARGE CHARACTERISTIC



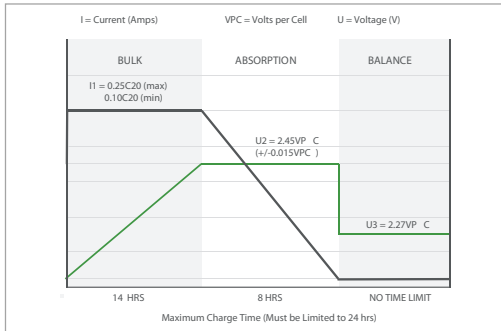
IUI WITH PULSE TERMINATION CHARGE PROFILE



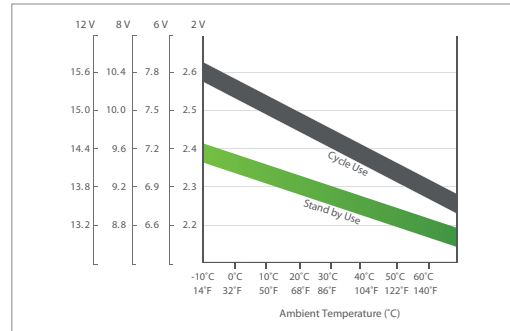
IUI CHARGE PROFILE



IUU CHARGE



RELATION BETWEEN CHARGING, VOLTAGE AND TEMPERATURE



Note: IUI with Pulse Termination algorithm uses a pulse termination criterion. As a safety precaution during the finish phase, if the average cell voltage, or volts per cell (vpc), exceeds U2 and the charger output has been on for more than 30 seconds, the output is shut off until the vpc falls to U3. The finish phase then resumes and this "pulsing" continues until the target overcharge (108% - 112%) is reached.

Note 2: Temperature Coefficient: Adjust +/- 0.005VPC per °C (or 0.003VPC per °F) from 25°C (77°F).

Trysome attempts to ensure the correctness of the product description and data contained herein. We reserve the right to change designs, specifications and pricing at any time without notice or obligation. It is the responsibility of the reader of this information to verify any and all information presented herein.

These products may not be stock items. Please speak to our sales representative about lead times.

Lead times, price and availability can only be determined on receipt of an official quote from our supplier. This can sometimes take up to 3 days.

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