

DATA SHEET



MODEL	IND29-4V	
NOMINAL CAPACITY	1618AH @ C ₂₀	
MATERIAL	Polypropylene (internal cell container)	Polyethylene (outer container)
DIMENSIONS	Inches (mm)	
BATTERY	Deep-Cycle Flooded/Advanced	d Lead Acid Battery
COLOR	Maroon	
WATERING	Single-Point Watering Kit (Opt	ional)
PRODUCT HIGHLIGHTS	Smart Carbon™ for Improved F 17 Years Battery Life Based on	



4V

PRODUCT + PHYSICAL SPECIFICATIONS

BCI Group Size	Туре	Terminal Type ⁶		Weight Lbs. (kg)		
			Length	Width	Height ^F	
N/A	IND29-4V	14	27.10 (688)	10.35 (263)	23.81 (605)	465 (211)

ELECTRICAL SPECIFICATIONS

Cranking	Performance	Capacity	y ^a Minutes	Capacity ^B Amp-Hours (AH)						Energy (kWh)	Internal Resistance (m Ω)	Short Circuit Current (amps)	
C.C.A. ^D @0°F(-1	8°C) C.A. ^E @ 32°F (0°	() @ 25 Amps	@ 75 Amps	2-Hr	5-Hr	10-Hr	20-Hr	48-Hr	72-Hr	100-Hr	100-Hr		
	_	_		_	1274	1448	1618	1899	2022	2105	8.42		

CHARGING INSTRUCTIONS

Charger Voltage Settings (at 77°F/25°C)									
System Voltage	4V	8V	12V	24V	36V	48V			
Bulk Charge	4.94	9.88	14.82	29.64	44.46	59.28			
Float Charge	4.50	9.00	13.50	27.00	40.50	54.00			
Equalize Charge	5.40	10.80	16.20	32.40	48.60	64.80			
D									

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.

CHARGING TEMPERATURE COMPENSATION

Add	Subtract
0.005 volt per cell for every 1°C below 25°C 0.0028 volt per cell for every 1°F below 77°F	0.005 volt per cell for every 1°C above 25°C 0.0028 volt per cell for every 1°F above 77°F

OPERATIONAL DATA

Operating Temperature	Self Discharge
-4°F to 113°F (-20°C to +45°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	5 – 15% per month depending on storage temperature conditions.

STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

Percentage Charge	Specific Gravity	Cell	4 Volt
100	1.260	2.11	4.22
90	1.246	2.09	4.18
80	1.227	2.07	4.14
70	1.207	2.05	4.10
60	1.187	2.03	4.06
50	1.165	2.01	4.02
40	1.142	1.99	3.98
30	1.119	1.96	3.92
20	1.096 1.94		3.88
10	1.072	1.92	3.84





Designed in compliance with applicable BCI, DIN, BS and IEC standards. Tested in compliance to BCI and IEC standards.



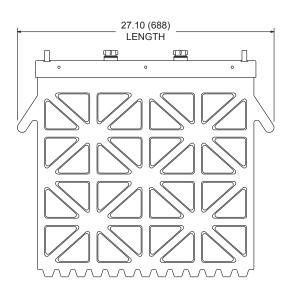


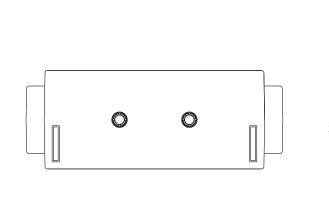
TERMINAL CONFIGURATIONS

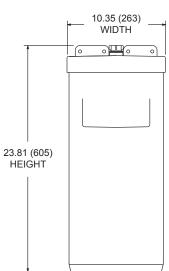
VENT CAP OPTIONS



BATTERY DIMENSIONS (shown with IND)

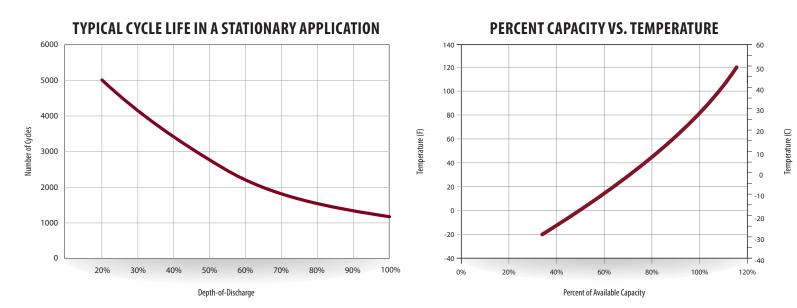






CAPACITY AMP-HOURS (AH)

CutoffVoltage	5-Hr	10-Hr	20-Hr	48-Hr	72-Hr	100-Hr	240-Hr
1.75 vpc	1274	1448	1618	1899	2022	2105	2111
1.80 vpc	1148	1361	1553	1849	1973	2050	2055
1.85 vpc	1041	1232	1426	1652	1800	1932	1936
1.90 vpc	764	995	1195	1382	1529	1716	1719



1000 Estimation Purposes Only 100 Discharge Current (amps) 10 1 100 1000 10000 100000

Time (min)

EXPECTED LIFE VS. TEMPERATURE

Chemical reactions internal to the battery are driven by voltage and temperature. The higher the battery temperature, the faster chemical reactions will occur. While higher temperatures can provide improved discharge performance the increased rate of chemical reactions will result in a corresponding loss of battery life. As a rule of thumb, for every 10°C increase in temperature the reaction rate doubles. Thus, a month of operation at 35°C is equivalent in battery life to two months at 25°C. Heat is an enemy of all lead acid batteries, FLA, AGM and gel alike and even small increases in temperature will have a major influence on battery life.

SMART CARBON™

Deep-cycle batteries used in off-grid and unstable grid applications are heavily cycled at partial state of charge (PSOC). Operating at PSOC on a regular basis can quickly diminish the overall life of a battery, which results in frequent and costly battery replacements. To address the impact of PSOC on deep-cycle batteries in renewable energy (RE), inverter backup and telecom applications, Trojan Battery has now included Smart Carbon™ as a standard feature in its Industrial and Premium flooded battery lines.

- The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- B
- The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance. Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 inches (12.7 mm) spacing с
 - minimum
- C.C.A. (Cold Cranking Amps) the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F (-18°C) at a voltage above 1.2 V/cell.

IND29-4V DS 2016 0617

- E.
- (-18°C) at a voitage above 1.2 V(celi. CA. (Cranking Amps) the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F (0°C) at a voitage above 1.2 V(celi. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F. Height taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
- G Terminal images are representative only



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TROJAN IND29-4V PERFORMANCE