

SPECIFICATIONS

Rated Voltage	12 V	
Nominal Capacity	100 Ah	
BCI	27	
Dimensions	Length	306 mm (12 inches)
	Width	168 mm (6.61 inches)
	Case Height	208 mm (8.19 inches)
	Total Height	214 mm (8.43 inches)
Approx Weight	30.6 kg (67.5 lbs)	
Terminal	T6	
Container Material	ABS	
Rated Capacity	100 Ah / 5 A	(20 hr, 1.80 V/cell, 25°C/77°F)
	95 Ah / 9.5 A	(10 hr, 1.80 V/cell, 25°C/77°F)
	82.5 Ah / 16.5 A	(5 hr, 1.75 V/cell, 25°C/77°F)
	74.1 Ah / 24.7 A	(3 hr, 1.75 V/cell, 25°C/77°F)
	58.9 Ah / 58.9 A	(1 hr, 1.60 V/cell, 25°C/77°F)
Max. Discharge Current	1140A (5s)	
Internal Resistance (25°C)	Approx 5.0 mΩ	
Operating Temp.Range	Discharge	-15~50°C (5~122°F)
	Charge	0~40°C (32~104°F)
	Storage	-15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 30 A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	N series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



APPLICATIONS

- UPS and EPS
- Emergency light
- Railway signal and aircraft signal system
- Marine and power stations
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply, DC power supply

STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL & CE Certified
- Manufactured in IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	111.2	93.5	82.9	68.8	53.1	45.4	29.4	22.1	18.1	15.2	13.3	10.7	9.21	4.83
1.80V/cell	127.2	105.0	91.7	74.7	57.3	47.9	31.6	23.8	19.3	16.2	14.1	11.3	9.50	5.00
1.75V/cell	144.5	118.3	101.3	81.2	62.4	52.3	32.9	24.7	19.9	16.5	14.6	11.6	9.76	5.13
1.70V/cell	163.1	131.3	111.9	88.6	67.3	55.3	34.6	26.0	20.8	17.5	15.3	12.1	10.1	5.26
1.65V/cell	175.2	140.5	119.0	93.5	71.2	57.2	35.9	27.0	21.6	18.0	15.8	12.5	10.4	5.42
1.60V/cell	192.7	153.9	129.3	99.8	74.0	58.9	36.8	27.7	22.1	18.5	16.2	12.8	10.6	5.51

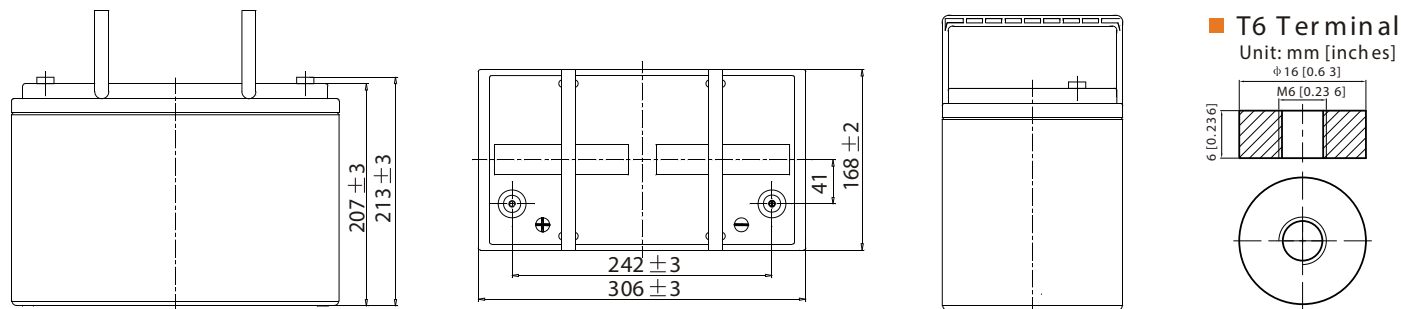
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	111.2	93.5	82.9	68.8	53.1	45.4	29.4	22.1	18.1	15.2	13.3	10.7	9.21	4.83
1.80V/cell	127.2	105.0	91.7	74.7	57.3	47.9	31.6	23.8	19.3	16.2	14.1	11.3	9.50	5.00
1.75V/cell	144.5	118.3	101.3	81.2	62.4	52.3	32.9	24.7	19.9	16.5	14.6	11.6	9.76	5.13
1.70V/cell	163.1	131.3	111.9	88.6	67.3	55.3	34.6	26.0	20.8	17.5	15.3	12.1	10.1	5.26
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1.60V/cell	192.7	153.9	129.3	99.8	74.0	58.9	36.8	27.7	22.1	18.5	16.2	12.8	10.6	5.51

GENERAL FEATURES

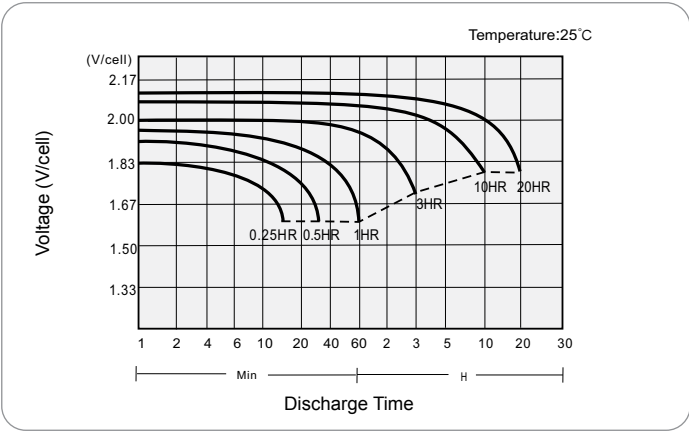
- 10 years design life (25°C)
 - Lead calcium alloy, sealed design, no watering required
 - Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
 - Designed for a wide range of applications

DIMENSIONS

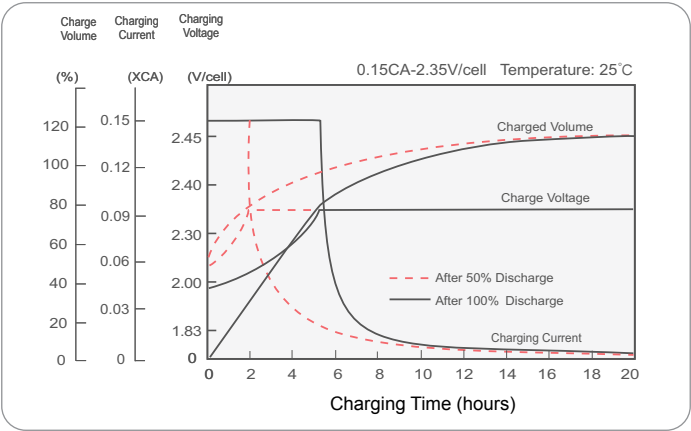


PERFORMANCE CHARACTERISTICS

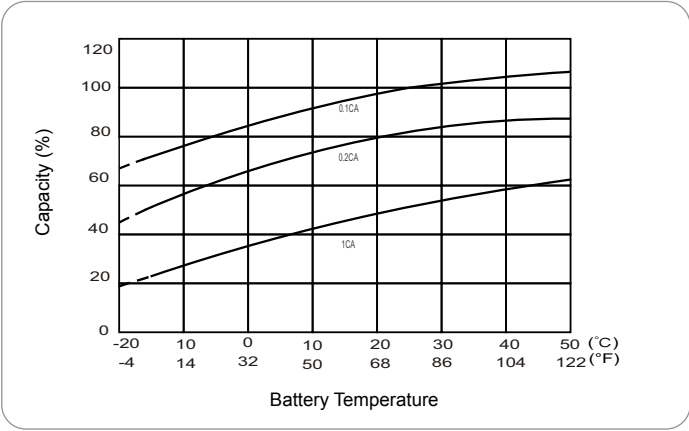
Discharge Characteristics



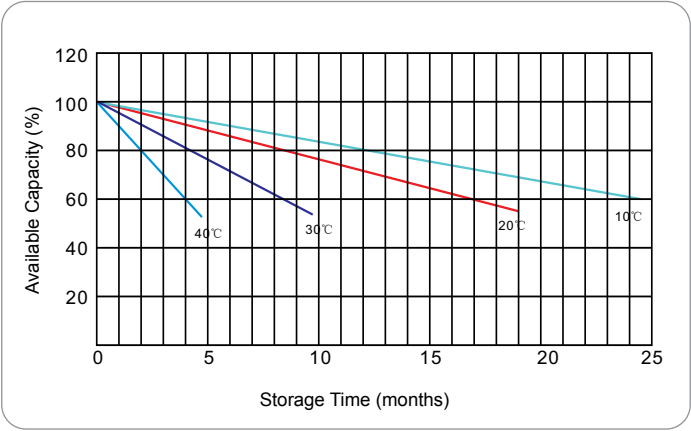
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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VALVE REGULATED LEAD-ACID BATTERY

N12-100I