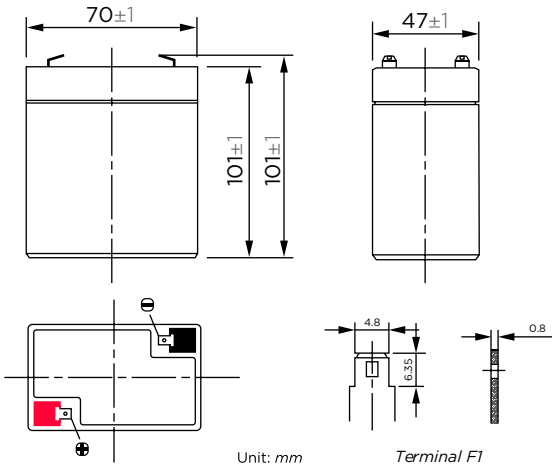
BatteryCenter™
Your Replacement Battery Source

BC-640

Rechargeable Sealed Lead Acid Battery

(6V 4.0Ah/20hr)



Unit: *mm*

Terminal F1

These rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

SPECIFICATION

Nominal voltage 6V
Number of cells 3
Design life .....5 years
Length (mm/inch) 70/2.76
Width (mm/inch) 47/1.85
Height(mm/inch).....101/3.98
Total Height (mm/inch).....107/4.21
Approx.Weight (kg/lb).....0.65/1.43

General Features

- Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

Performance Characteristics

Capacity 77°F(25°C)	20 hour rate (0.2A, 5.25V)	4.0Ah
	5 hour rate (0.7A, 5.25V)	3.5Ah
	1 hour rate (2.5A, 4.8V)	2.5Ah
Internal Resistance	Full charged Battery77°F(25°C)	35mΩ
Capacity affected by Temperature (20 hour rate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(10°C)	85%
	5°F(-15°C)	65%
Self-Discharge 68°F(20°C)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
	Capacity after 12month storage	60%
Max. discharge current77°F(25°C)		60 A(5 S)
Charge (Constant Voltage)	Float:6.80-6.90 V/77°F/(25°C)	
	Cycle:7.25-7.45 V/77°F/(25°C)	
	Max. Current:1A	

Discharge Constant Current (Amperes at 77°F25°C)

F.V/Time	*5 min*	*10 min*	*15 min*	*30 min*	*1h*	*3h*	*5h*	*10h*	*20h*
1.60V	14.0	8.65	7.05	4.10	2.50	1.15	0.72	0.39	0.21
1.65V	13.2	8.15	6.70	3.93	2.41	1.10	0.72	0.39	0.21
1.70V	12.4	7.72	6.39	3.75	2.32	1.05	0.71	0.38	0.20
1.75V	11.6	7.31	6.10	4.56	2.25	1.00	0.70	0.38	0.20
1.80V	10.9	6.95	5.79	3.39	2.14	0.95	0.68	0.37	0.19

Discharge Constant Power (Watts at 77° F25°C)

F.V/Time	*5 min*	*10 min*	*15 min*	*30 min*	*1h*	*3h*	*5h*	*10h*	*20h*
1.60V	26.8	16.7	13.3	8.33	4.83	1.86	1.22	0.80	0.45
1.65V	25.1	15.7	12.6	7.92	4.63	1.82	1.20	0.79	0.43
1.70V	23.5	14.7	11.9	7.49	4.42	1.77	1.18	0.78	0.42
1.75V	21.8	13.8	11.2	7.05	4.20	1.71	1.16	0.77	0.41
1.80V	20.2	12.8	10.4	6.62	3.97	1.66	1.13	0.76	0.39

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

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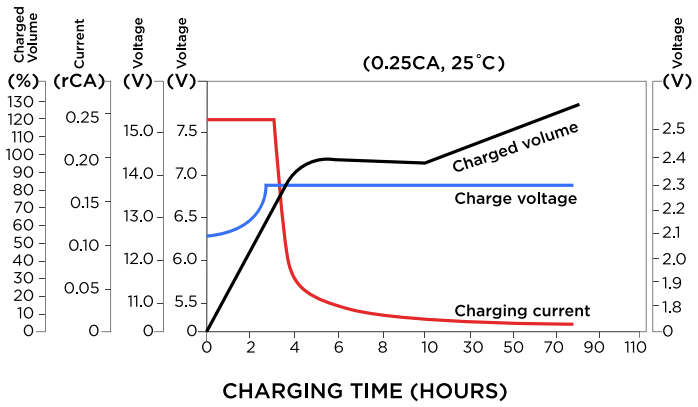
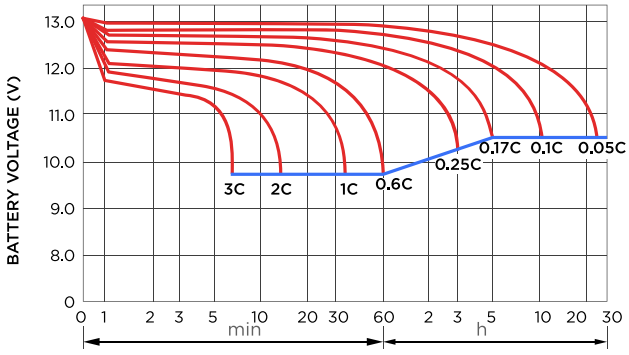
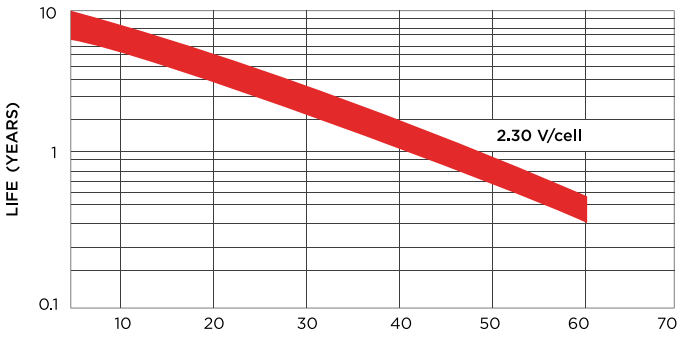
Charge characteristic curve



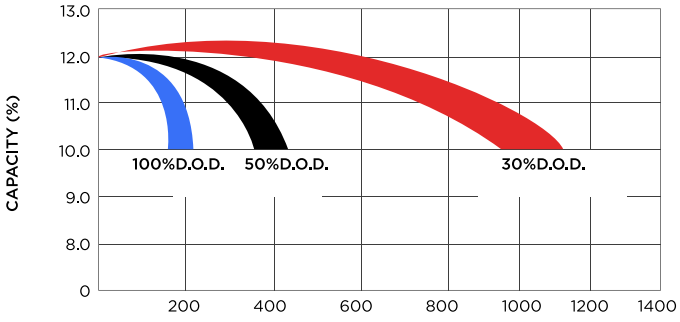
Discharge characteristic (25°C)



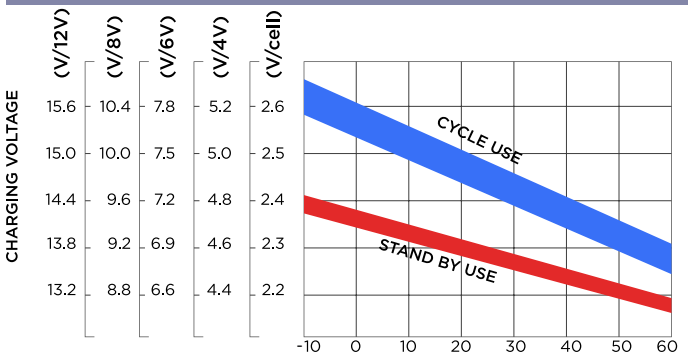
Temperature effects on float life



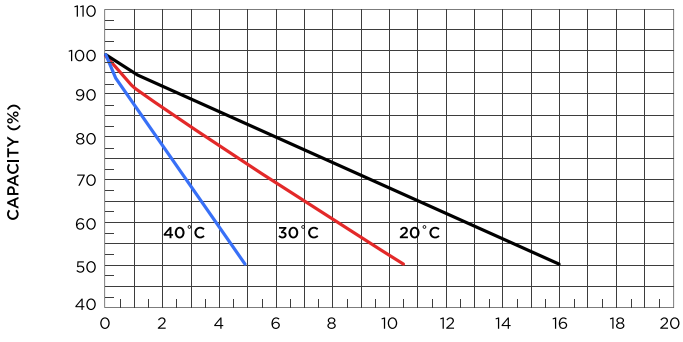
Cycle service life in relation to depth of discharge



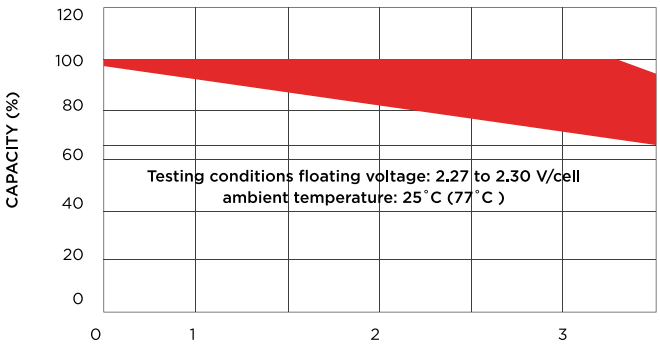
Relationship between charging voltage and temperature



Self-discharge characteristic



Life characteristics of standby use



Temperature effects on capacity