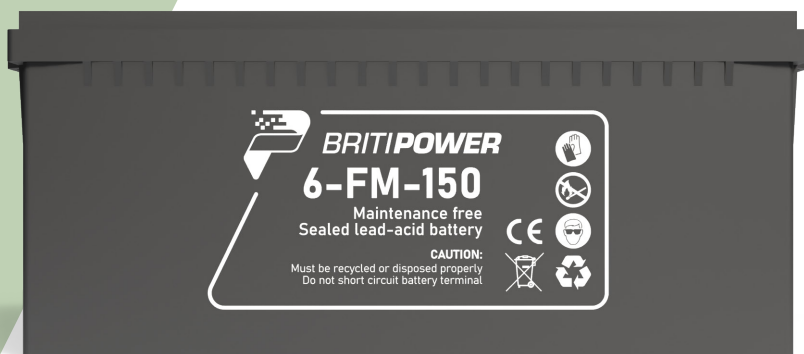




Description

The Briticom 6-FM-150 FM Series Battery is a high-capacity, 12V, 150Ah power solution engineered for reliability and versatility. Designed for general-purpose applications, this robust battery provides dependable energy delivery for a wide range of uses, including backup power systems, renewable energy setups, and other demanding environments.

With its durable construction, the 6-FM-150 is built to perform consistently, even under challenging conditions. It supports high discharge rates and demonstrates excellent resilience to temperature fluctuations, ensuring reliable operation across various settings. Compact in design but powerful in performance, this battery is ideal for both residential and commercial needs where efficiency and longevity are paramount.

Specifications

Normal Voltage		12V
Rated Capacity (20 hour rate)		150Ah
Dimensions	Total Height (with terminals)	8.62 inches (219mm)
	Height	8.43 inches (214mm)
	Length	20.94 inches(532mm)
	Width	8.15 inches (207mm)
Weight		Approx.104.5 Pound(47.5kg)

Characteristics

Capacity 77°F (25°C)	10 hour rate (10.0A)	150Ah
	5 hour rate (16.0A)	120Ah
	1 hour rate (60.0A)	90Ah
	15 minute rate (164A)	61.5Ah
Internal Resistance	Fully Charged Battery 77°F (25°C)	3.5 m Ω
Capacity Affected by Temperature (20hour rate)	104°F (40°C)	102%
	77°F (25°C)	100%
	32°F (0°C)	85%
	5°F (-15°C)	65%
Self-Discharge 77°F (25°)	Capacity after 3 months storage	91%
	Capacity after 6 months storage	81%
	Capacity after 12 months storage	60%
Max. Discharge Current 77°F (25°)	1000A (5S)	
Terminal	T3	
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 45A Voltage 14.1 V / 77°F (25°C) Equalization temperature compensation coefficient: -24MV/°C
	Float	Voltage 13.5V / 77°F (25°C) Compensation coefficient of floating charging temperature: -18MV/°C

Features

- **Fully Modular & Hot-Swappable Design** – Easy installation, maintenance, and expansion
- **High Reliability Architecture** – Redundant digital control ensures continuous operation
- **Wide Input Voltage Range** – Stable performance under poor power conditions
- **High Energy Efficiency** – Up to 96% online efficiency with low harmonic distortion
- **Parallel Redundancy Support** – Up to 8 units in parallel with shared batteries
- **Strong Load Capability** – Output power factor 1.0, supports 100% unbalanced loads
- **Advanced Intelligent Management** – Touch LCD, multiple communication interfaces, remote monitoring
- **Generator & Battery Compatible** – Supports VRLA/lithium batteries and generator operation

Standards

- IEC 60896-2004
- JISC 8707-1992
- GB/T 19638.2-2014
- YD/T 799-2010
- DL/T 637-1997

To Order

Ordering information on page 3.

BritiPower 6-FM-150 Battery
12V, 150Ah Power Source

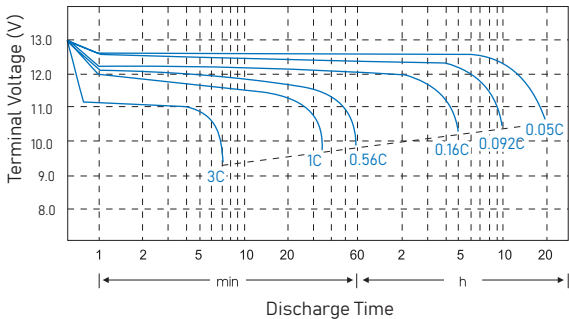
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

Final Voltage	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60V/cell	339	246	159	94.2	55.6	39.6	31.0	26.6	18.0	16.1	8.87
1.67V/cell	326	237	153	90.6	53.5	39.3	30.7	26.5	17.8	16.0	8.82
1.70V/cell	308	236	130	90.2	53.2	39.2	29.5	26.3	17.6	15.8	8.70
1.75V/cell	270	214	122	90.0	53.0	37.8	28.6	25.4	17.5	15.6	8.60
1.80V/cell	260	206	118	86.5	51.0	37.5	27.5	24.0	16.8	15.0	8.25
1.85V/cell	213	179	108	79.6	49.0	36.8	26.1	23.1	16.0	14.4	7.93

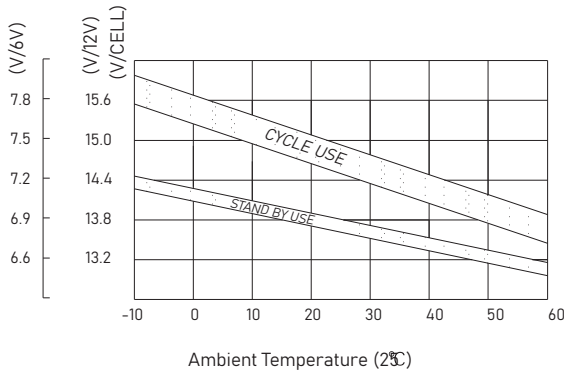
Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

Final Voltage	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60V/cell	583	454	286	178	106	73.7	58.1	48.6	33.5	30.3	16.7
1.67V/cell	576	451	282	175	104	72.0	57.0	48.1	33.4	29.9	16.6
1.70V/cell	560	441	247	168	102	70.4	55.8	47.1	33.1	29.2	16.4
1.75V/cell	519	411	234	162	101	69.6	55.1	46.5	32.5	28.9	16.2
1.80V/cell	487	391	214	159	100	68.7	54.1	45.2	32.1	28.5	15.5
1.85V/cell	404	342	208	148	95.5	67.8	53.1	44.0	29.9	27.0	14.9

Discharge Curves 77°F (25°C)



Relationship Between Charge Voltage and Temperature

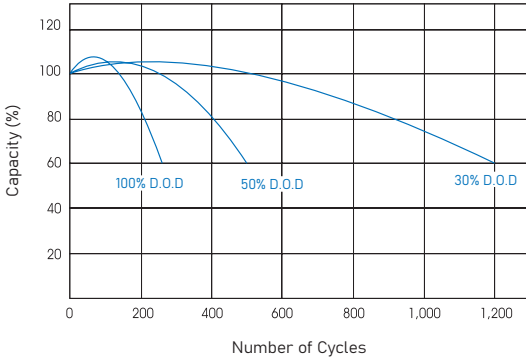


The operating environment temperature above 40°C should be avoided ,After long time storage, the battery actual capacity would be less than the rated capacity. Full capacity will be obtained through several charge/discharge cycles.
To get the longest life, Briticom battery should be fully charged before storage.

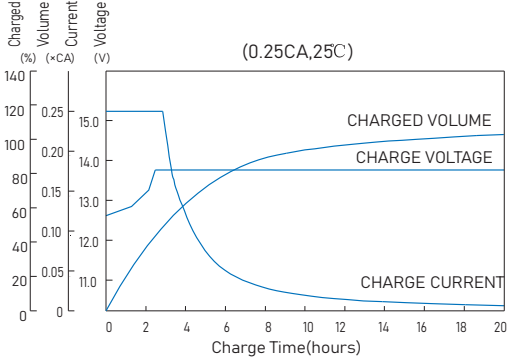
To Order

To place an order, use the contact details below.

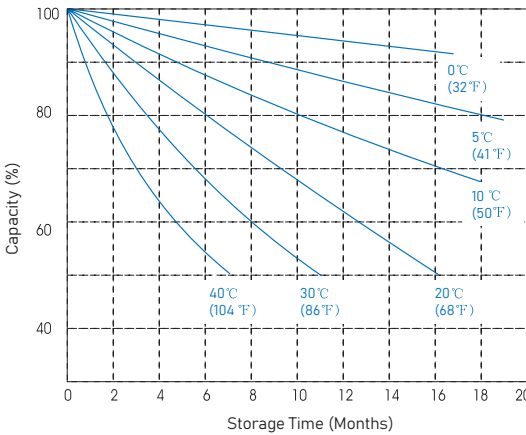
Cycle Service Life in Relation to Depth of Discharge



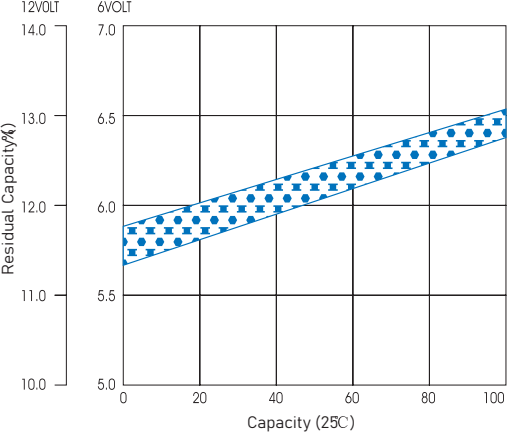
Constant Voltage Charge Characteristic



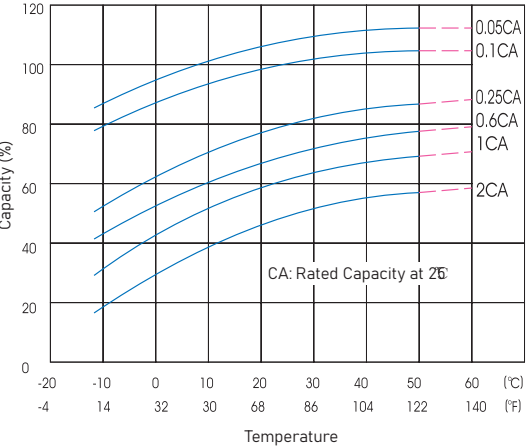
Self-Discharge Characteristics



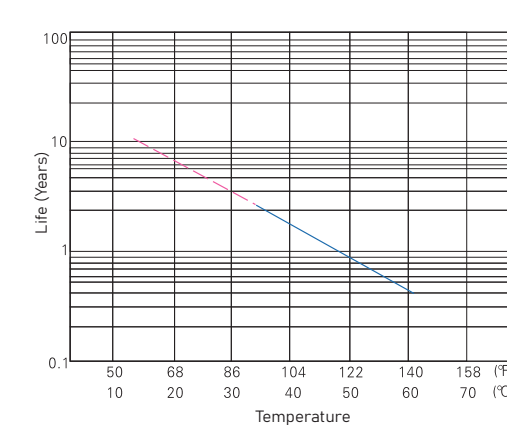
Relationship of OCV and Residual Capacity % (25°C)



Temperature Effects on Capacity



Temperature Effects Float Life



Example Part Number	
Description	Part Number
6-FM-150 Battery 214 x 532 x 207	BAT-6-FM-150

To Order

To place an order, use the contact details below.