

# FRONT TERMINAL LEAD-ACID BATTERY

## JF12-180

### APPLICATIONS

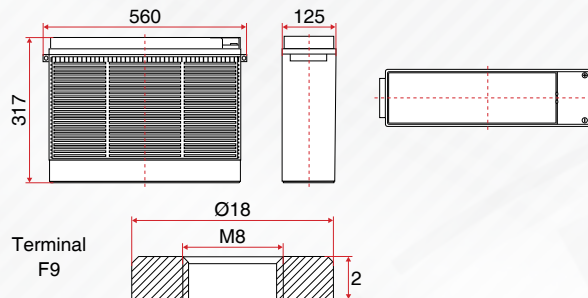
- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting, Auto control system
- Solar/wind generating storage cyclic
- Other general purpose

### GENERAL FEATURES

- High corrosion resistant performance: Pb-Ca multi-alloy grid
- High energy density and power density
- Narrow structure and front terminal design, suitable for 23-inch standard cabinets
- Long life
- Excellent charge acceptance ability
- Excellent deep cycle discharge capability
- Strong high and low temperature performance
- Precision sealing technology

### DIMENSION AND WEIGHT

	JF12-180
Length	560mm
Width	125mm
Height	317mm
Total Height	317mm
Weight	Approx. 53.5kg



### PRODUCT SPECIFICATIONS

ITEM	JF12-180
Nominal voltage	12V
Nominal capacity	180Ah
Design life	10 years
Terminal	M8
Approx. weight	Approx. 53.5kg (118lbs)
Container material	ABS
Rated capacity	<b>180Ah</b> ▶ 10 Hour rate (18.0A to 10.8V) <b>145Ah</b> ▶ 3 Hour rate (48.3A to 10.8V) <b>118Ah</b> ▶ 1 Hour rate (118A to 10.5V)
Internal resistance	Full charged at 25°C: 3.2 mΩ
Max discharge current	2160A (5s)
Operating temperature	Discharge: -20 ~ 50°C (-4 ~ 122°F) Charge: -20 ~ 50°C (-4 ~ 122°F) Storage: -20 ~ 50°C (-4 ~ 122°F)
Charge method (25°C)	Charge current: Max. 45A; recom. 18A Float charge: 13.5 - 13.8V, recom. 13.5V (-18mV/°C) Equalize charge: 13.8 - 14.1V, recom. 14.1V (-24mV/°C) Cycle charge: 14.4 - 15.0V, recom. 14.4V (-30mV/°C)
Self discharge	3% of capacity declined per month at 25°C

**Constant current discharge characteristics unit: A (25°C, 77°F)**

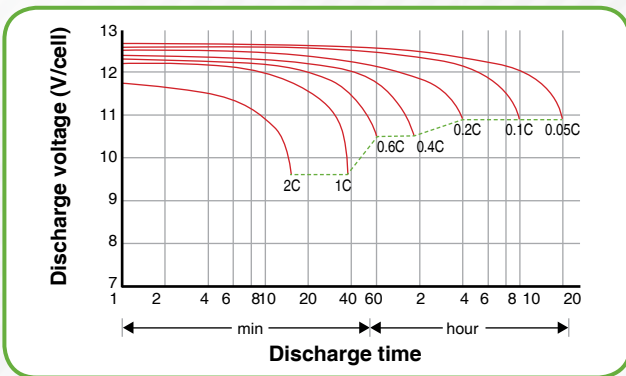
VOLTAGE	JF12-180									
F.V TIME	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	634	341	207	121	69.5	50.5	33.9	22.2	18.7	9.83
1.65V	615	330	204	120	69.1	49.9	33.5	22.1	18.5	9.77
1.70V	590	323	200	120	68.6	49.2	33.2	21.9	18.4	9.72
1.75V	543	313	198	118	67.6	48.7	32.8	21.7	18.2	9.68
1.80V	487	292	190	115	66.3	48.3	31.9	21.5	18.0	9.63
1.85V	434	260	173	106	63.0	45.5	30.3	20.6	17.5	9.47

**Constant power discharge characteristics unit: W/cell (25°C, 77°F)**

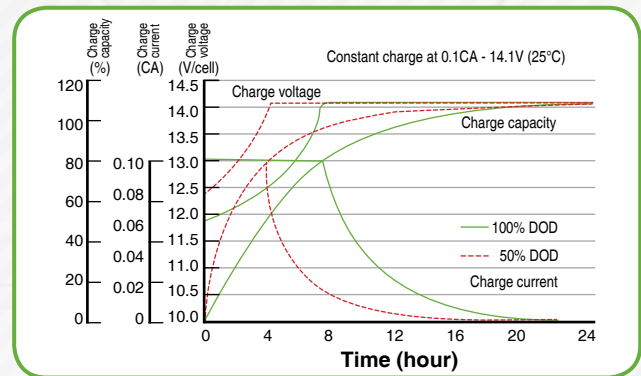
VOLTAGE	JF12-180									
F.V TIME	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	1063	600	375	229	131	96.0	64.2	43.2	36.0	19.4
1.65V	1023	590	371	227	131	94.7	63.9	42.9	35.6	19.4
1.70V	1017	583	371	226	131	94.2	63.3	42.7	35.3	19.3
1.75V	949	579	370	224	130	93.7	63.0	42.3	34.9	19.2
1.80V	871	548	361	222	129	93.3	62.3	42.0	34.6	19.1
1.85V	778	489	331	206	124	88.7	59.4	40.5	34.0	18.9

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information

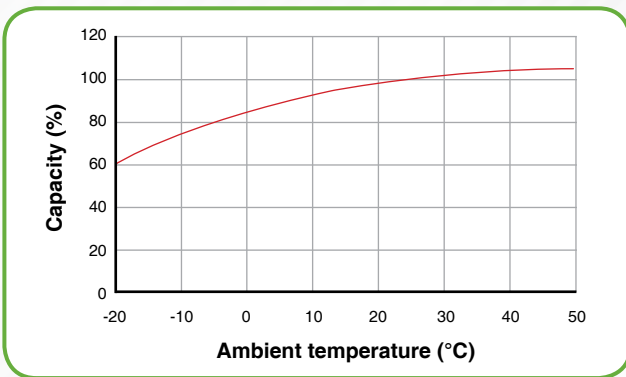
**Discharge characteristics**



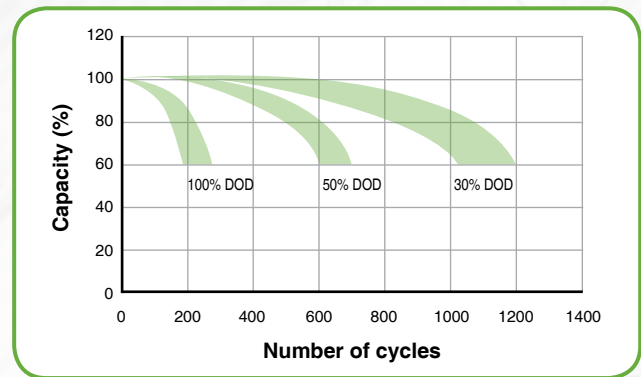
**Charging characteristics**



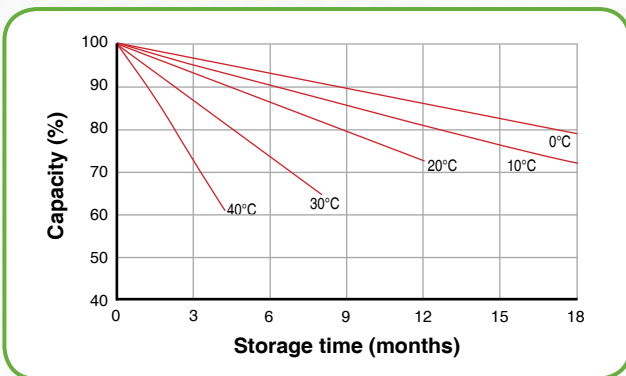
**The effect of temperature on capacity**



**The effect of discharge depth on cycle life**



**The effect of temperature on capacity**



**The effect of temperature on float life**

