



Application:

- For standard 19 inch or 23 inch power cabinets
- Network connection equipment of communication system
- Power system of special network or local area network
- UPS, standby power supply
- Power station systems
- Marine systems

Specifications

Battery Model	12V125F
Nominal Voltage	12V
Rated Capacity	125Ah (10 hour rate) to 1.80V/cell
Typical Weight	46kg
Internal Resistance	Approx 5.76mΩ
Temperature Ranges	Operation (maximum): -40°C to 50°C (-40°F to 122°F)
	Operation (recommended): 15°C to 25°C (59°F to 77°F)
	Storage: -20°C to 40°C (-4°F to 104°F)
Float Voltage	2.25V/cell@25°C (77°F)
Recommended Maximum Charging Current Limit	31.25A
Equalize and Cycle Service	2.35V~2.40V/cell@25°C (77°F)
Self Discharge	The residual capacity is above 90% after 90 days
Terminal	M6 Female
Terminal Hardware Torque	8 ± 1.0Nm
Container Material	ABS (VO optional)

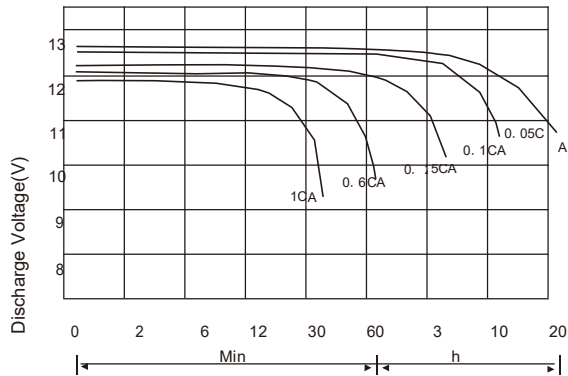
Constant Current Discharge Characteristics Units: Amperes (25°C, 77°F)

End voltage per cell	5MIN	15MIN	30MIN	45MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	12HR	20HR	24HR
1.60V	409.4	220.0	133.8	96.7	78.2	44.8	32.6	26.4	23.2	19.9	15.4	12.7	10.9	6.82	5.69
1.67V	384.5	212.1	131.6	96.0	77.8	44.6	32.0	26.2	23.1	19.8	15.3	12.6	10.9	6.76	5.64
1.70V	381.1	208.7	129.3	95.3	77.2	44.3	31.8	26.1	22.7	19.6	15.3	12.6	10.8	6.75	5.64
1.75V	350.5	201.9	128.2	94.6	76.1	43.1	31.4	25.8	22.6	19.4	15.2	12.5	10.8	6.73	5.64
1.80V	314.2	188.3	122.5	90.7	74.1	42.8	31.2	25.7	22.1	19.1	15.1	12.5	10.7	6.66	5.63
1.83V	299.4	172.4	120.2	87.7	70.8	42.2	30.2	24.5	21.4	18.5	14.7	11.9	10.1	6.64	5.54
1.85V	280.1	167.9	111.8	84.3	68.7	40.6	29.4	24.2	20.9	18.0	14.2	11.8	10.0	6.52	5.49

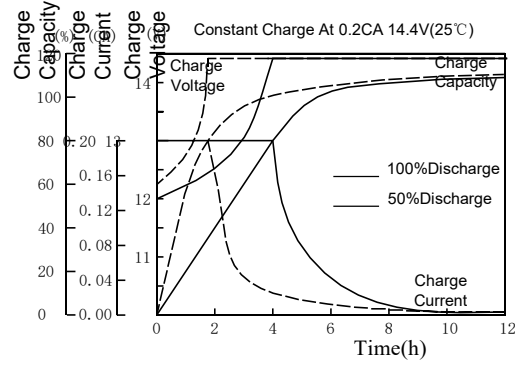
Discharge Data with Constant Power Units: Watts per cell (25°C, 77°F)

End voltage per cell	5MIN	15MIN	30MIN	45MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	12HR	20HR	24HR
1.60V	682.7	385.4	240.7	180.8	147.7	84.8	61.9	51.8	45.0	39.0	30.3	25.3	21.4	13.7	11.5
1.67V	656.7	378.6	238.5	179.7	146.6	84.5	61.1	51.7	45.0	38.8	30.2	25.0	21.4	13.6	11.5
1.70V	653.3	374.1	238.5	179.7	146.6	84.2	61.1	51.4	44.4	38.5	29.9	24.8	21.2	13.6	11.4
1.75V	609.2	371.8	237.3	178.6	144.3	83.7	60.5	51.4	44.4	38.4	29.7	24.8	21.1	13.6	11.4
1.80V	559.5	351.5	231.7	175.2	143.2	83.5	60.3	51.3	43.6	38.0	29.5	24.8	21.1	13.6	11.4
1.83V	534.6	322.1	229.4	169.5	137.5	82.5	58.9	49.4	42.7	36.9	29.3	24.2	20.5	13.6	11.3
1.85V	499.6	314.2	212.5	162.8	133.0	79.8	57.3	48.8	41.7	36.2	28.4	23.9	20.2	13.4	11.3

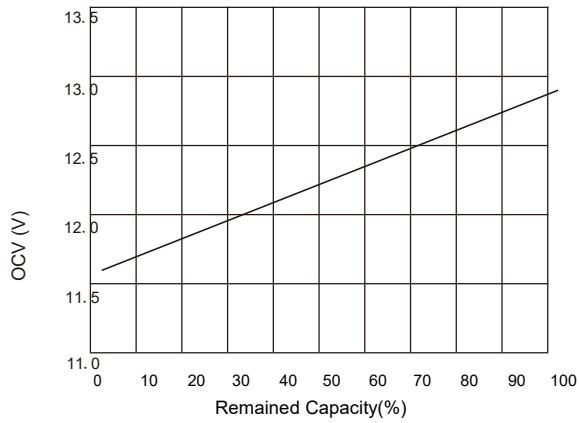
Terminal Voltage(V) Vs. Discharge Time (25°C, 77°F)



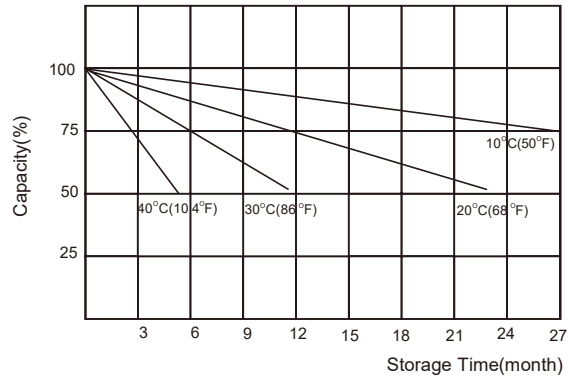
Battery Voltage Vs. Charge Time Charge Characteristic



Relationship of OCV Vs. State of Charge



Capacity Retention Characteristic



Charging Procedures

Application	Charge Voltage (V/Cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle	25°C	2.40	2.35~2.40	0.25C
Standby	25°C	2.25	2.23~2.27	

Discharge Current VS. Discharge Voltage

1.80	1.70	1.55	1.30
0.2C ≥ (A)	0.2C < (A) < 0.5C	0.5C < (A) < 1.0C	(A) > 1.0C

