

JF12-90

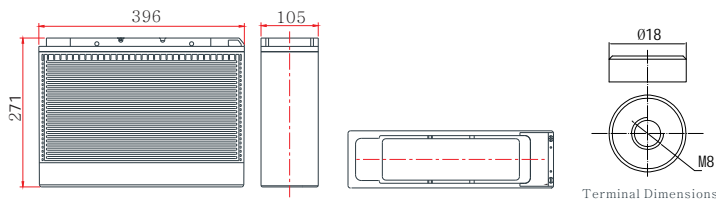


General Features

- › Narrow structure and front terminal design, suitable for 19-inch and 23-inch standard cabinets
- › High corrosion resistant performance: Pb-Ca multi-alloy grid
- › Excellent charge acceptance ability
- › Excellent deep cycle discharge capability
- › Strong high and low temperature performance
- › Precision sealing technology
- › Long life



Dimension: 396(L)×105(W)×271(H)×271(TH) Unit: mm



Applications

- › Telecom outdoor integration site
- › Power systems
- › UPS/EPS
- › Emergency lighting, Auto control system
- › Solar/wind generating storage cyclic
- › Other general purpose

Specification

Nominal Voltage	12V
Nominal Capacity	90Ah
Design life	12 years
Terminal	M8
Approx. Weight	Approx 27.0kg (59.5lbs)
Container Material	ABS
Rated Capacity	90.0Ah → 10Hour Rate (9.00A to 10.8V)
	69.3Ah → 3Hour Rate (23.1A to 10.2V)
	56.9Ah → 1Hour Rate (56.9A to 9.6V)
Internal resistance	Full charged at 25°C: 6.0mΩ
Max. Discharge Current	1080A(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 current:	Max. 22.5A ; Recom. 9A
Charge Method (25 °C)	Float charge: 13.5-13.8V, recom. 13.8V (-18mV/ °C)
	Equalize charge: 13.8-14.1V, recom. 14.1V (-24mV/ °C)
	Cycle charge: 14.4-15.0V, recom. 14.7V (-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

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

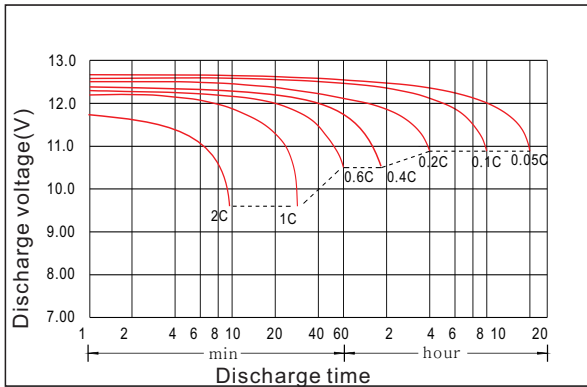
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	209	176	147	89.3	70.0	56.9	35.7	32.7	23.7	17.2	15.9	12.7	10.4	9.31	4.87
1.65V	203	175	143	87.9	69.1	55.9	35.3	32.5	23.5	17.0	15.7	12.6	10.3	9.21	4.77
1.70V	195	174	141	86.0	68.2	55.0	35.2	32.2	23.1	16.9	15.6	12.5	10.2	9.12	4.67
1.75V	180	172	136	85.1	67.2	54.1	34.8	31.8	22.9	16.7	15.4	12.3	10.1	9.02	4.57
1.80V	160	167	127	81.3	66.3	53.1	34.4	31.2	22.7	16.5	15.0	12.2	10.0	9.00	4.47
1.85V	143	155	112	74.7	61.1	49.8	33.5	29.6	21.4	16.0	14.2	11.8	9.68	8.65	4.36

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

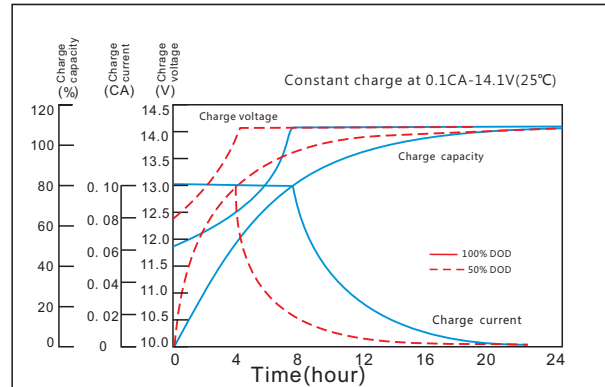
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	351	298	259	162	129	109	69.7	63.4	45.1	33.1	30.2	24.6	20.3	17.9	9.46
1.65V	337	296	256	161	128	107	68.9	63.0	44.5	32.7	30.0	24.3	20.2	17.8	9.26
1.70V	336	294	252	160	127	106	68.6	62.5	44.3	32.6	29.8	24.2	20.1	17.5	9.06
1.75V	313	291	251	159	126	104	67.7	61.6	44.0	32.2	29.6	23.9	19.9	17.3	8.88
1.80V	288	289	237	156	125	102	67.1	60.6	43.9	32.0	29.3	23.7	19.7	17.2	8.72
1.85V	257	270	212	143	116	96.8	65.8	58.0	41.7	31.4	27.9	23.2	19.0	16.9	8.51

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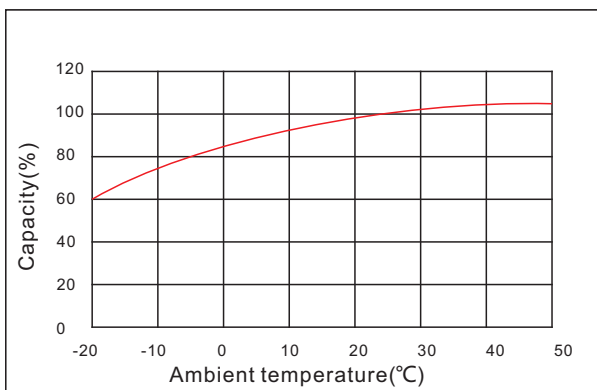
Discharge characteristic



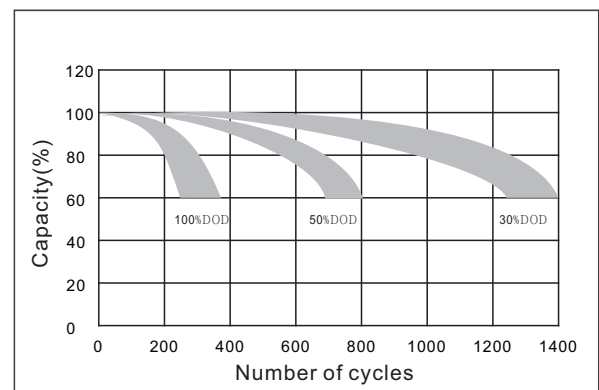
Charging characteristic



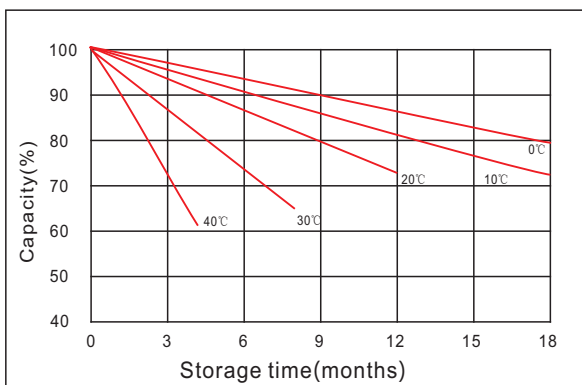
The effect of temperature on capacity



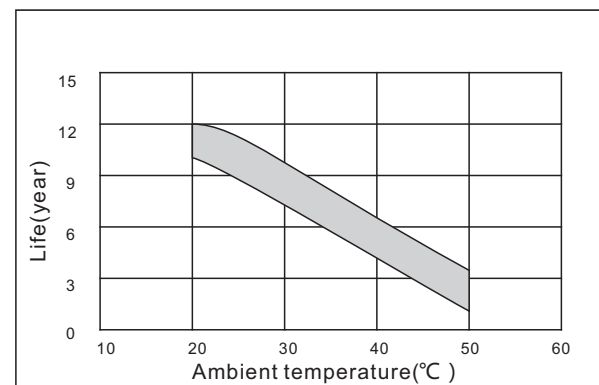
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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