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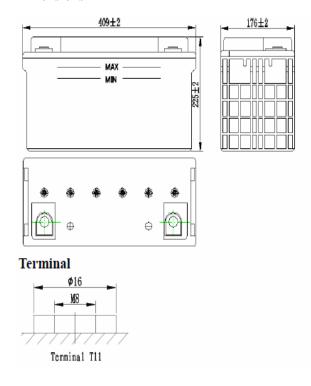
Specifications

Nomii	nal V	/oltage	12 V					
G :	10	HR(1.80V)	200 Ah					
Capacity (20°C)	31	HR(1.75V)	153Ah					
(200)	1HR(1.60V)		112Ah					
Battery		Dry	46.5kg (102lbs)±5%					
Weigh		Wet	67.5kg (148lbs)±5%					
Acid Weig	ht (c	l=1.24kg/l)	Approx21kg (46.2lbs)					
Terminal	type	/material	T11 / Copper					
		istance ed, 25°C)	Approx. $3.5 \text{m}\Omega$					
Self-dischar	rge	1 month	Remaining Capacity: 86%(20°C)					
	al op pera	perating ture	20°C±5°C(68°F±9°F)					
Operating		Discharge	-15°C∼50°C(5°F∼122°F)					
temperature		Charge	10°C∼45°C(50°F∼113°F)					
range		Storage	10°C∼30°C(50°F∼86°F)					
Initial charging		Constant current	Charge the battery at $0.05 C_{10}$ for 72h.					
		Constant voltage	Charge the battery at 0.1 C ₁₀ to 2.35v/cell; then Charge the battery with 2.35v/cell until the whole charge time up to 100h.					
Mark of Fully charged		Constant current	The battery voltage and density of electrolyte remain stable over 2h at the end of charging, and strong bubbles generated within the electrolyte					
		Constant voltage	The charging current and density of electrolyte kept constant for more than 3h at the end of the charge; and the charging current is about 0.002~0.005 C ₁₀ amp.					
Supplem	enta	ry charge	Charge the battery at $0.05 C_{10}$ to fully charged.					
Equaliz	ing (charging	Charge the battery with 2.40v/cell for 48h.					
Battery operation	Float charging		Charge the battery with 2.23V (25°C); Equalizing charging the battery when the abnormal occurs					
	Charge&		Equalizing charging the battery					
	discharge Backup		after discharged and per 3months Supplementary charge the battery					
Maximum	har	ging current	per 3 or 6 months. 50.0A					
		ge current	1600A(5 sec.)					
		ycle life	1600@80% DOD (30°C)					
			20 years(20°C)					
Designed floating life 20 years(20°C)								

CHARACTERISTICS:

- ◆ Tubular Positive Plate;
- ◆ Flooded Battery;
- ◆ Porous Rubber and Porous PVC Separator
- ◆ Transparent Container.

Dimensions



Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.65V	161	110	66.6	52.0	41.8	36.8	31.2	23.8	20.4	11.0	9.56
1.70V	156	108	66.0	51.4	41.2	36.2	30.8	23.6	20.2	10.9	9.52
1.75V	152	105	65.0	51.0	41.0	36.0	30.6	23.4	20.2	10.9	9.46
1.80V	146	102	63.4	49.4	39.8	35.0	29.6	22.6	20.0	10.8	9.40

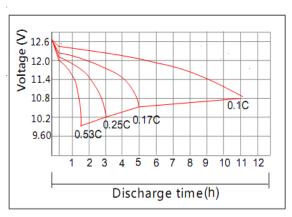
Constant Power Discharge Characteristics (Watt per cell, 25°C)

F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h
1.65V	301	210	129	102	82.0	72.4	61.6	47.4	40.4	22.0	19.2
1.70V	291	204	127	101	81.0	71.4	60.8	46.6	40.4	21.8	19.1
1.75V	284	200	125	100	80.4	71.0	60.2	46.4	40.0	21.8	19.0
1.80V	274	194	122	97.0	78.0	68.8	58.4	45.0	39.8	21.6	18.9

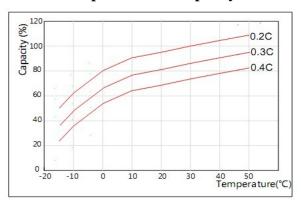
Note: The above characteristics data can be obtained within three charge/discharge cycles.

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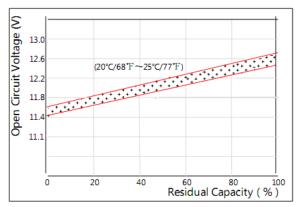
Discharge Characteristics(25°C)



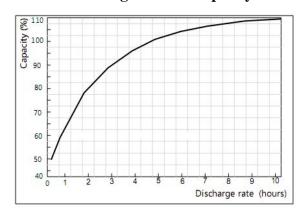
Effect of Temperature on Capacity



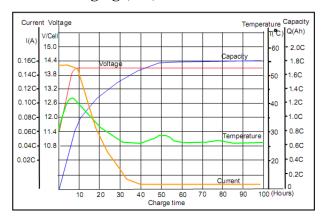
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



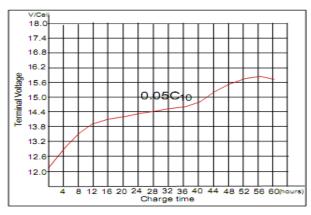
Effect of Discharge rate on Capacity



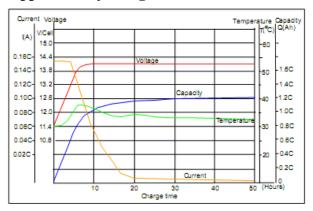
Initial Charging (CV)Characteristics



Initial Charging (CC)Characteristics(25°C)



Supplementary charge (CV) Characteristics



Cycle Life on D.O.D(25℃)

