

PALMA

PMF200-12(12V200Ah)

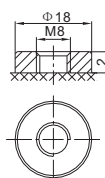
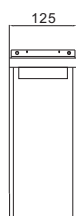
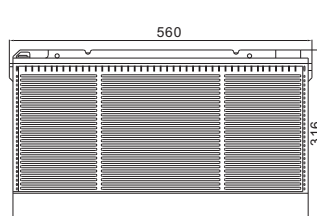
Specification

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	200Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 57.0 Kg (Tolerance ±3%)
Internal Resistance	Approx. 4.0 mΩ
Terminal	F14(M8)
Max. Discharge Current	2000A (5 sec)
Design Life	12 years (Float charging)
Recommended Maximum Charging Current	60.0 A
Reference Capacity	C3 154.8AH C5 174.5AH C10 200.0AH C20 210.0AH
Standby Use Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ±5°C
Self Discharge	PALMA Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



PMF (Front Terminal) Series is specially designed for telecom use with 12 years design life in float service. By adopting a new AGM separator and centralized venting system, the battery can be installed in any position while maintaining high reliability. The dimensions of the PMF series are designed for 19" and 23" cabinet installation. is suitable for telecom EPS/EPS, applications.

Dimensions



F14 Terminal

Length	560±2mm (22.1 inches)
Width	125±2mm (4.92 inches)
Height	316±2mm (12.4 inches)
Total Height	316±2mm (12.4 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

Constant Current Discharge Characteristics : A (25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	338.2	212.5	122.2	72.8	56.4	44.3	37.7	25.4	21.1	11.0
1.65V	323.3	204.0	118.0	70.5	54.7	43.1	36.8	25.1	20.8	10.9
1.70V	302.8	195.0	114.2	68.2	53.2	42.0	35.8	24.7	20.5	10.7
1.75V	281.8	186.4	110.0	65.8	51.6	40.9	34.9	24.3	20.3	10.6
1.80V	260.2	178.1	105.8	63.4	50.0	39.7	34.0	23.9	20.0	10.5
1.85V	215.9	153.4	94.9	58.1	46.2	36.9	31.7	22.5	18.8	10.0

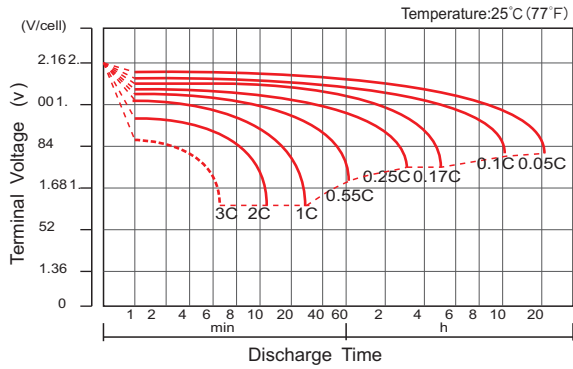
Constant Power Discharge Characteristics : WPC (25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	591.2	386.0	229.6	138.0	107.7	85.1	72.7	49.5	41.5	21.7
1.65V	573.6	374.4	223.0	134.2	104.9	83.1	71.1	49.1	41.0	21.4
1.70V	545.3	361.5	217.1	130.5	102.5	81.2	69.5	48.4	40.5	21.2
1.75V	514.8	349.0	210.5	126.5	99.8	79.4	68.0	47.8	40.0	21.0
1.80V	482.1	337.0	203.6	122.6	97.1	77.4	66.5	47.1	39.5	20.8
1.85V	405.7	293.1	183.7	113.0	90.2	72.2	62.2	44.4	37.3	19.7

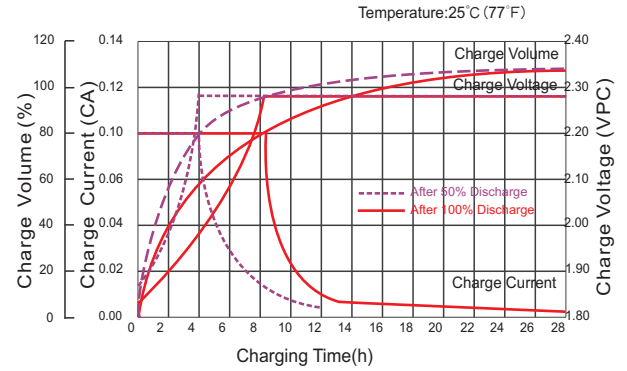
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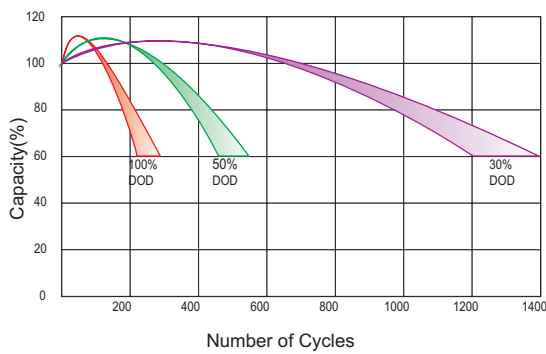
Discharge Characteristics Curve



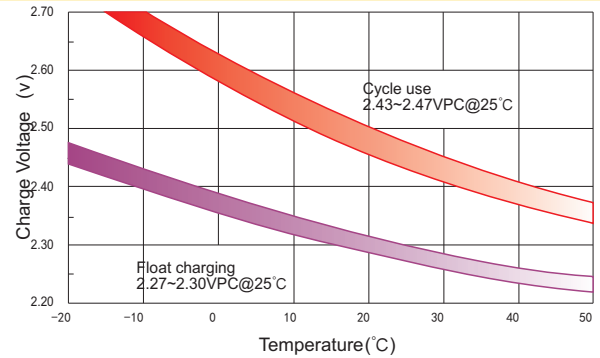
Charge Characteristic Curve For Standby Use



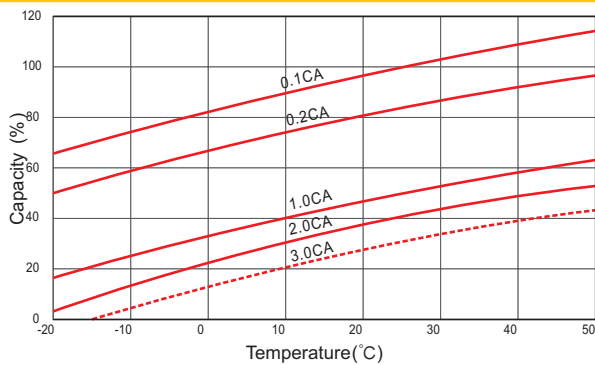
Cycle Life In Relation To Depth Of Discharge



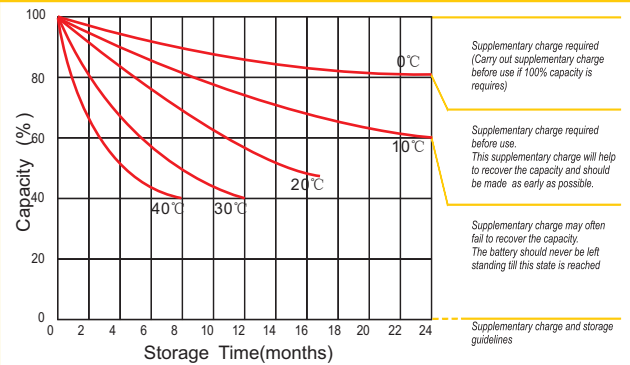
Relationship Between Charging Voltage And Temperature



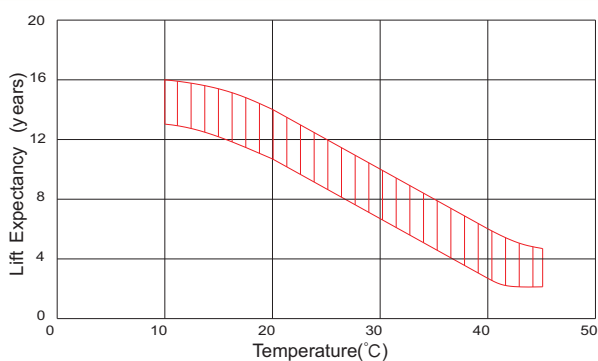
Temperature Effects On Capacity



Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use

