

TechnicalData: P90-12



The P90-12 is a general purpose battery with 12 years floating design life, meeting IEC, JIS, BS and Eurobat standards. With heavy duty, grid thickness plates, special additives, this series of batteries have a long life and reliable standby service life.

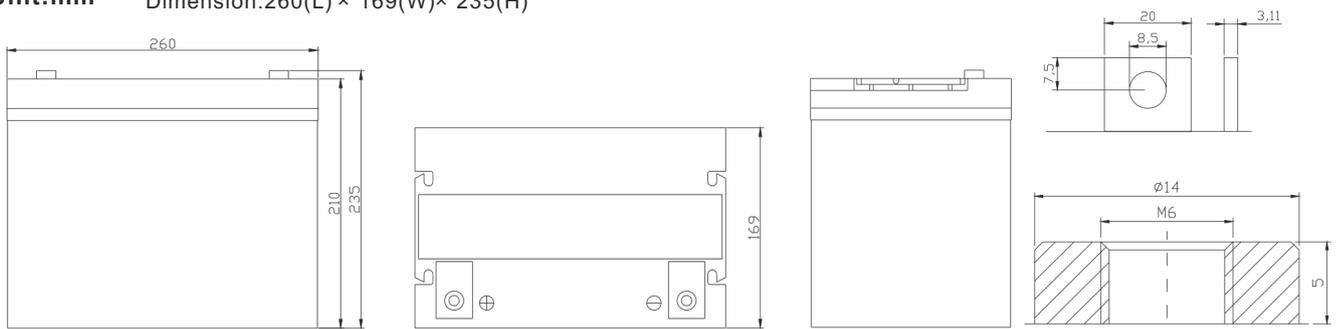
*Photo is for illustrative purposes only. Actual product may differ

Specification:

Cells Per unit	6
Voltage per unit	12
Capacity	90Ah@20hr-rateto1.75V percell@25oC
Weight	Approx. 23.5Kg
Max. Discharge Current	750A(5Sec)
Internal Resistance	Approx• 5.2mΩ
Operating Temperature range	Discharge:-20oC ~ 60oC Charge:0oC ~ 50oC Storage:-20oC ~ 60oC
Normal Operating Temp. Range	25oC±5oC
Float Charging Voltage	13.6to13.8VDC/ unitaverage at25oC
Recomm. Max Charging Current	27A
Equalization and Cycle Service	14.6to14.8VDC/ unitaverage at25oC
Self Discharge	Can bestored formorethan6months at25oC. Self-dischargeratiolessthan3%permonthat 25oC. Please chargebattery beforeusing.
Terminal	TerminalF12
Container Material	A.B.S.(UL94-HB) Flammabilityresistanceof U94-V1.

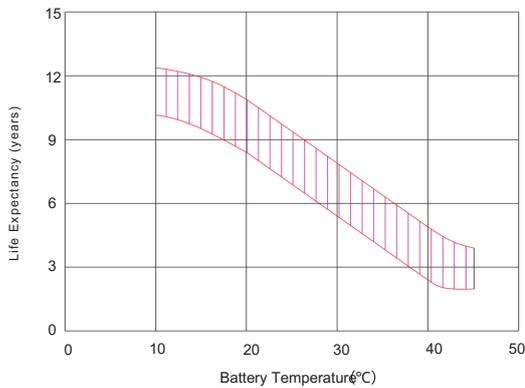
Dimensions

Unit:mm Dimension:260(L) × 169(W) × 235(H)

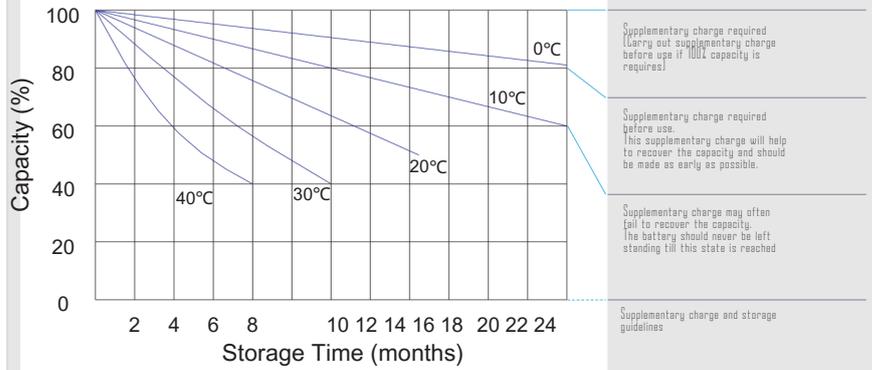


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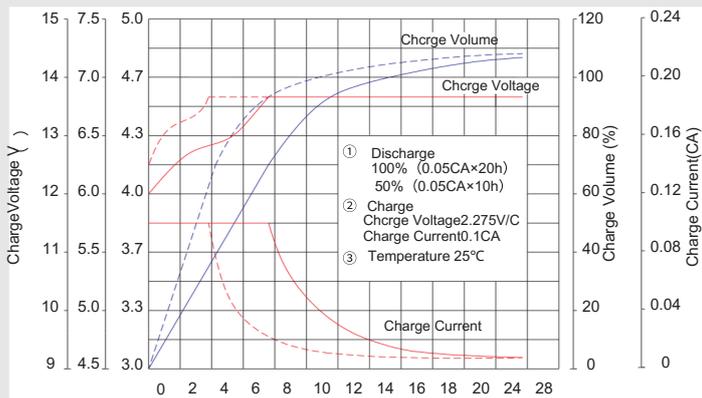
Effect of temperature on long term float life



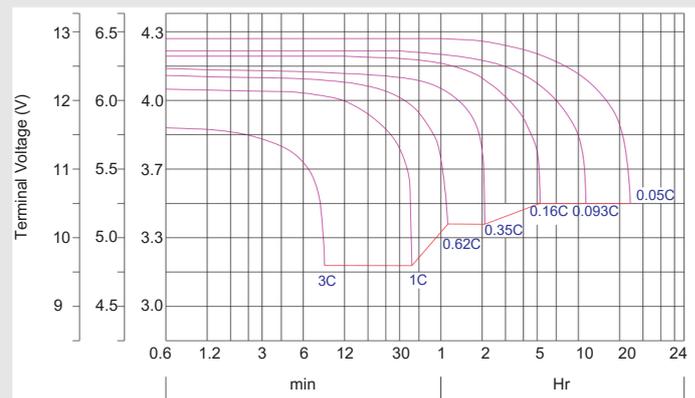
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors With Different Temperature

Charge Time (h)

Discharge Time

Battery Type	-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
AGM Battery	1V & 1.2V	86%	96%	93%	90%	98%	100%	103%	107%	109%
	1V	80%	90%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h+2.4-2.45V/cellx24h, Max. Current 0.3CA
Constant Current	-0.2Cx2h+0.1CAx12h
Fast	-0.2Cx2h+0.3CAx4.0h