

SN12-7 - Data Sheet



Part Reference	SN12-7
Technology	Lead Acid Rechargeable Battery AGM - General Purpose (SN)
Nominal Voltage	12V
Nominal Capacity	7Ah
Rated Capacity	7,00Ah/0,35A - (20hr, 1,80V/cell, 25°C) 6,53Ah/0,65A - (10hr, 1,80V/cell, 25°C) 5,80Ah/1,16A - (5hr, 1,75V/cell, 25°C) 5,13Ah/1,71A - (3hr, 1,75V/cell, 25°C) 4,26Ah/4,26A - (1hr, 1,60V/cell, 25°C)
Internal Resistance	28mOhm
Max. Charge Current	2.1A
Max. Discharge Current	105A (5s)
Cycle use	Voltage 14,4V~15,0V at 25°C(77°F)Temp. Coefficient -30mV/°C
Standby use	SUNMATIC SN series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Weight	Approx. 2.18kg
Dimensions	Height = 99.00mm Length = 151.00mm Width = 65.00mm
Terminals/Connector	T2
Container/Housing	ABS
Temperature Range	Charge: 0 ~ 40 °C Discharge: -15 ~ 50 °C Storage: -15 ~ 40 °C No limit on Initial Charging Current Voltage 13,5V~13,8V at 25°C(77°F)Temp. Coefficient -20mV/°C

Features

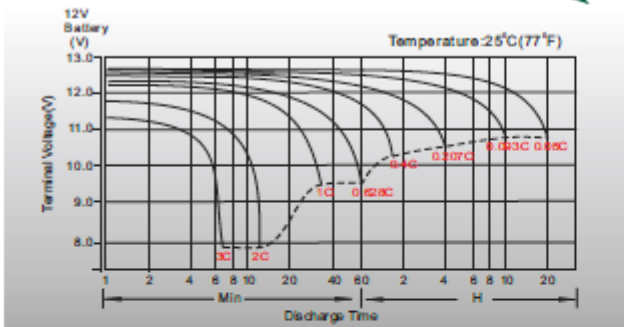
- Maintenance-free, no water adding required
- Sealed Valve-Regulated
- Spill proof / leak proof
- Deep discharge protection
- Plate grids from lead-calcium alloy, free of antimony
- No corrosion
- Installs vertically or horizontally
- Low gassing (unless overcharged)
- Good cycling and stationary performance
- Good high rate discharges
- Long shelf life
- Rugged and vibration-resistant

Applications

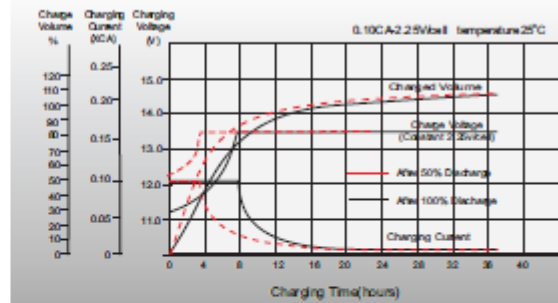
- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Auto control system

Curves

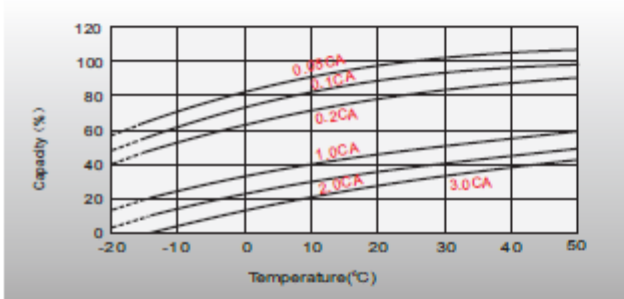
Discharge Characteristics



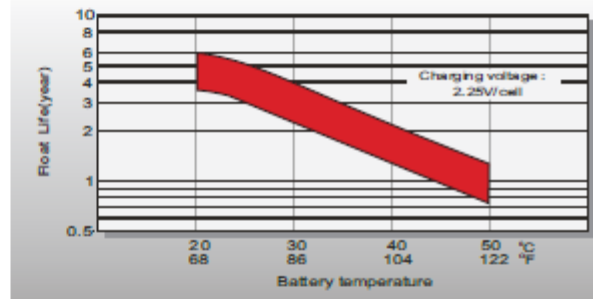
Float Charging Characteristics



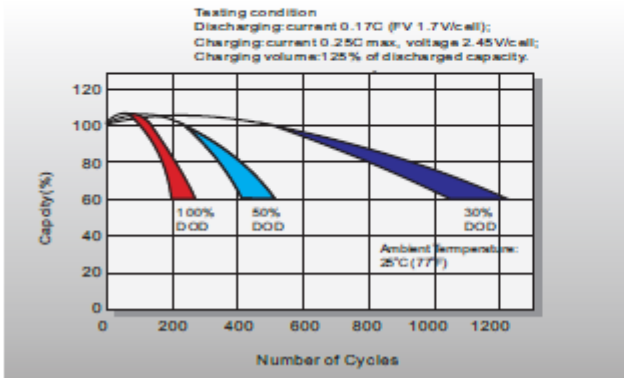
Temperature Effects in Relation to Battery Capacity



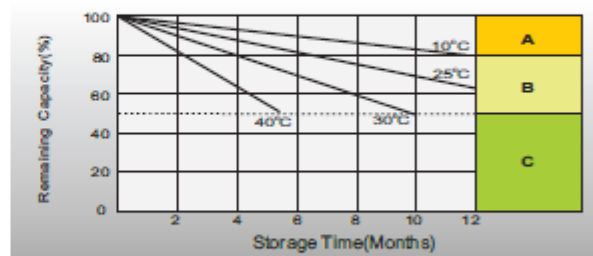
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics

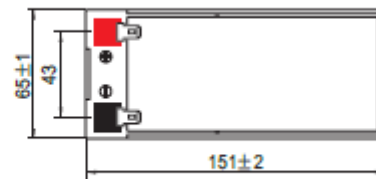
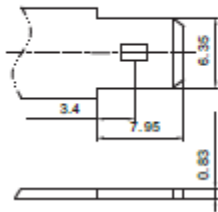


- A** No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.)
Supplementary charge required before use. Optional charging way as below:
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
3. Charged for 8~10 hours at limited current 0.05CA.
- B** Supplementary charge may often fail to recover the capacity. The battery should never be left standing still this is reached.
- C**

Drawing

T2 Terminal

Unit: mm



Contact

Visit www.gpbmindustry.com for more information.

Providing the best battery solution and customization is our expertise.
For any queries or clarification, please contact info@gpbmindustry.com