

AGM Battery Sun Store 120

340092 • 06/2017

The Phaesun Sun Store AGM batteries are very robust, waterproof, cycle-proof and have an extremely long life expectancy. They are highly efficient and best suitable as allround-batteries.



Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway or aircraft signal
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Auto control system
- Solar powered Off-Grid-Systems
- Hybridsystems with wind and hydro power
- Renewable power supply

Technical Data	Sun Store 120
Nominal voltage	12 V
Nominal Capacity (10HR)	120,0 Ah
Dimensions	410 x 177 x 225 mm
Approx. Weight	37,6 kg
Terminal	T11
Container Material	ABS
Rated Capacity @ 25 °C	137 Ah / 1,37 A (100 h; 1,85 V/cell) 124 Ah / 6,24 A (20 h; 1,80 V/cell) 120 Ah / 12,0 A (10 h; 1,80 V/cell) 103 Ah / 20,6 A (5 h; 1,75 V/cell) 93 Ah H / 31,2 A (3 h; 1,75 V/cell) 73 Ah / 73,2 A (1 h; 1,60 V/cell)
Max. Discharge Current	1200 A (5s)
Internal Resistance	Approx. 4,0 mΩ
Operation Temp. Range	Discharge: -15 ~ +50 °C Charge: -15 ~ +40 °C Storage: -15 ~ +40 °C
Nominal Operating Temp. Range	25 ± 3 °C
Cycle Use	Initial Charging Current less than 36,0 A; Voltage 14,4 V – 15,0 V at 25 °C Temp. Coefficient -30m V/°C
Standby Use	No limit on Initial Charging Current Voltage 13,5 V – 13,8 V at 25 °C Temp. Coefficient -20 mV/°C
Capacity affected by Temp.	40 °C, 103% 25 °C, 100% 0 °C, 86%
Self Discharge	Sun Store batteries may be stored for up to 6 months at 25 °C and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Life expectancy	8 years at 25 °C with charge voltage 2,25 V/cell
Article No.	340092

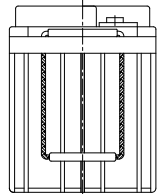
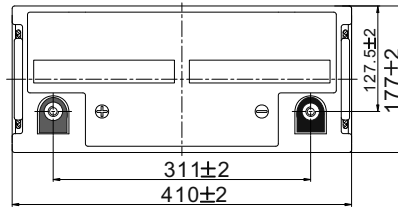
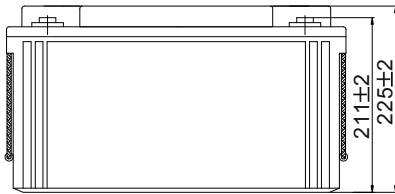
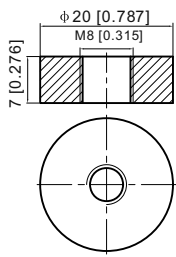
Conform to:

IEC60896-21&22 and/or
IEC61427

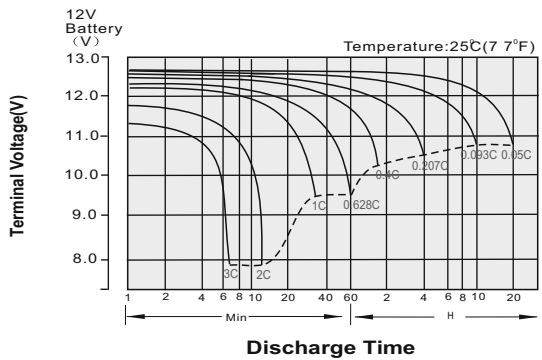


T11 Terminal

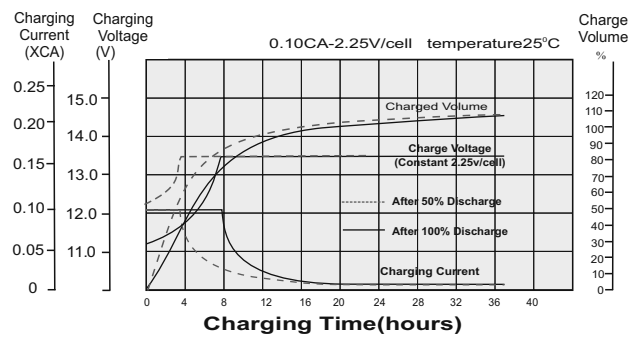
Unit: mm [inches]



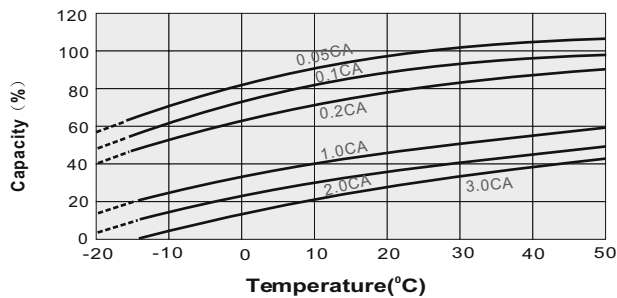
Discharge Characteristics



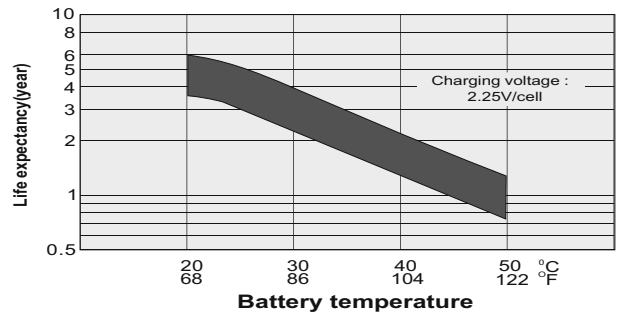
Float Charging Characteristics



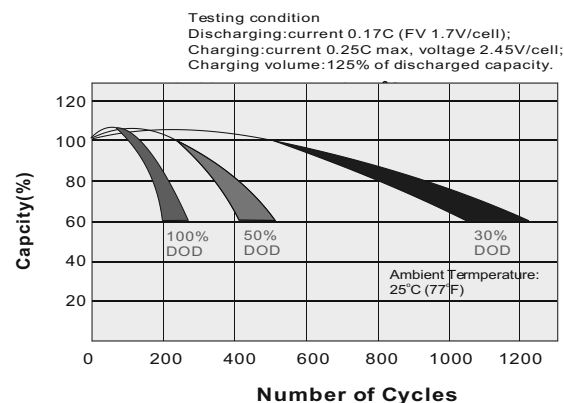
Temperature Effects in Relation to Battery Capacity



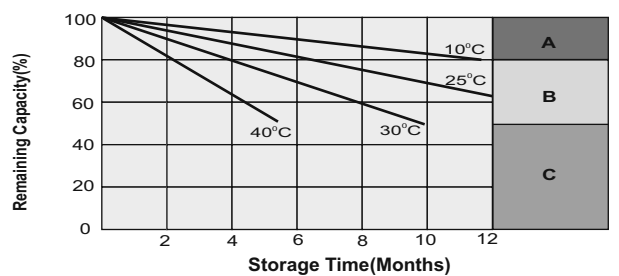
Effect of Temperature on Long Term Float Life



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.)
- B** 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.
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.