

# AGM Battery Sun Store 150

340091 • 03/2016

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

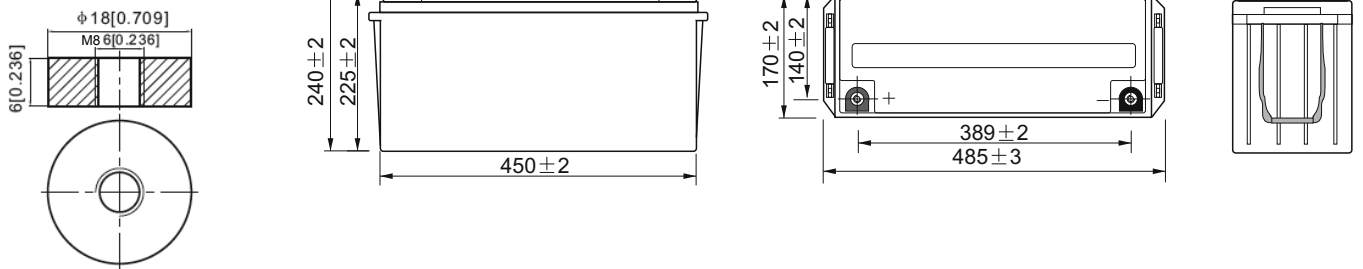
Technical Data	Sun Store 150
Nominal voltage	12 V
Nominal Capacity (20HR)	150,0 Ah
Dimensions	485 x 170 x 240 mm
Approx. Weight	48,2 kg
Terminal	T11
Container Material	ABS
Rated Capacity @ 25 °C	172 Ah / 1,7 A (100 h; 1,85 V/cell) 156 Ah / 7,80 A (20 h; 1,80 V/cell) 150 Ah / 15,0 A (10 h; 1,80 V/cell) 129 Ah / 25,8 A (5 h; 1,75 V/cell) 117 Ah / 39,0 A (3 h; 1,75 V/cell) 91 Ah / 91,5 A (1 h; 1,60 V/cell)
Max. Discharge Current	1500 A (5s)
Internal Resistance	Approx. 3,5 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 45,0 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.	340091

Conform to:

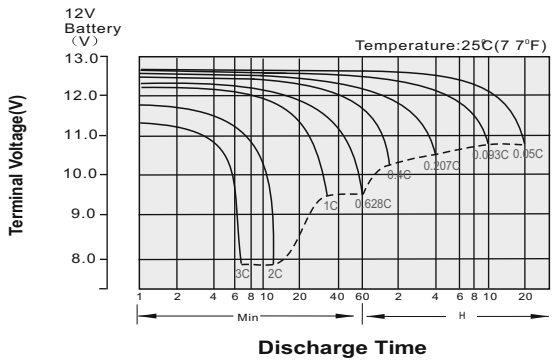
IEC60896-21&22 and/or  
IEC61427



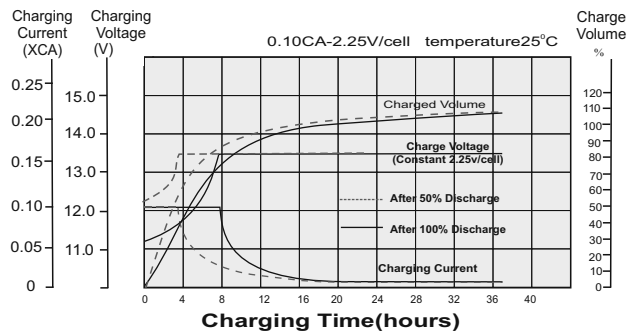
**T11 Terminal**  
Unit: mm [inches]



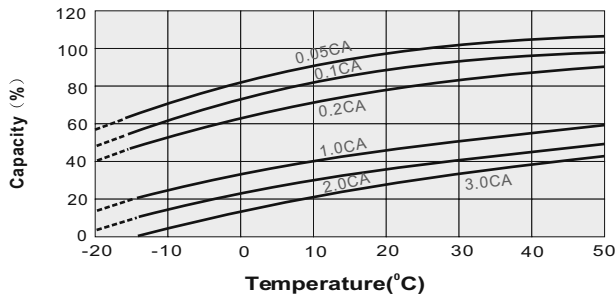
**Discharge Characteristics**



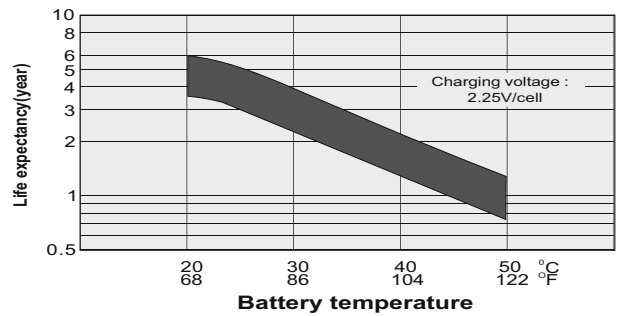
**Float Charging Characteristics**



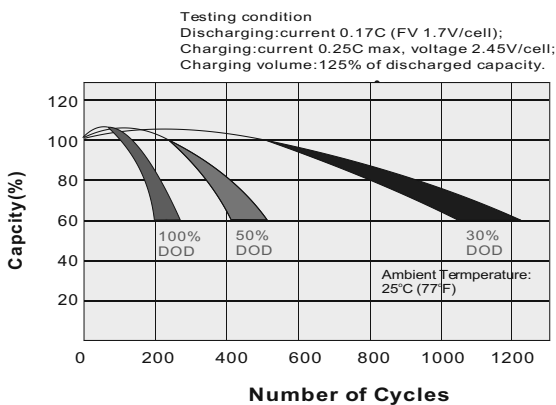
**Temperature Effects in Relation to Battery Capacity**



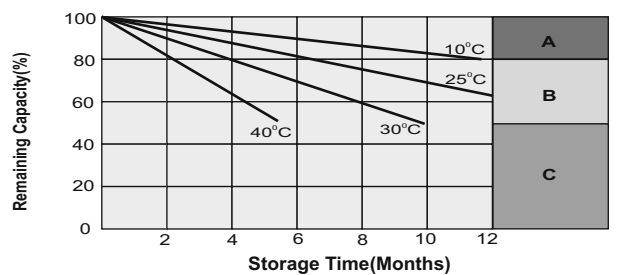
**Effect of Temperature on Long Term Float Life**



**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.