Information PCMS-1210 batterie stealth 12V33AH

Batterie : ASS-1277 (ASS-1277 - DISCOVER - D12350D-SPEC)

Panneau solaire 2x85 ou 3x85W - défaut panneau solaire plat, option tilt and rotate.

Régulateur solaire :

Puissance max : 300W

- Tension d'opération max : 15V
    - Low Voltage disconnect (LVD) : 10.4V
    - Load Voltage reconnect : 12.6V
    - Consommation typ : 12V
    - Tension d'entrée panneau solaire max : 30V
    - Tension d'entrée panneau solaire min : 16V
    - Bulk/Absorption : Flooded Acid: 14.4V, AGM: 14.15V, Gel : 14.00V
    - Float : 13.7V

Charging cycle :

1.3 Battery Charging Cycle

PB-REG-21100A uses the following 3-stage charging modes:

- **Bulk Charge Mode:** The solar regulator maximizes the power drawn from the solar panels to push the most current into the batteries. This mode lasts until the battery voltage reaches the over-voltage limit (Vbulk). It then switches to **Absorption mode** for up to one hour before going into **Float Mode**.

Battery type	Flooded	Sealed	Gel/AGM
Vbulk at 25°C (77°F)	14.40	14.15	14.00

- **Absorption Mode:** The solar regulator maintains the voltage at the same voltage as Vbulk, but charging current is lowered to safely top off the charge.
- **Float Mode:** Once batteries reach full charge, charging voltage drops to 13.7 V so as to reduce gassing and prolong battery life. This is often referred to as a maintenance or trickle charge. In float mode, the regulator will push just enough current to maintain the battery voltage at 13.7 V. When unable to maintain the battery voltage (falls below 13.4 V at 25°C (77°F)), the controller goes back to Bulk Charge.

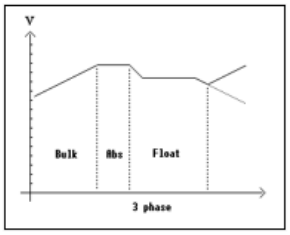
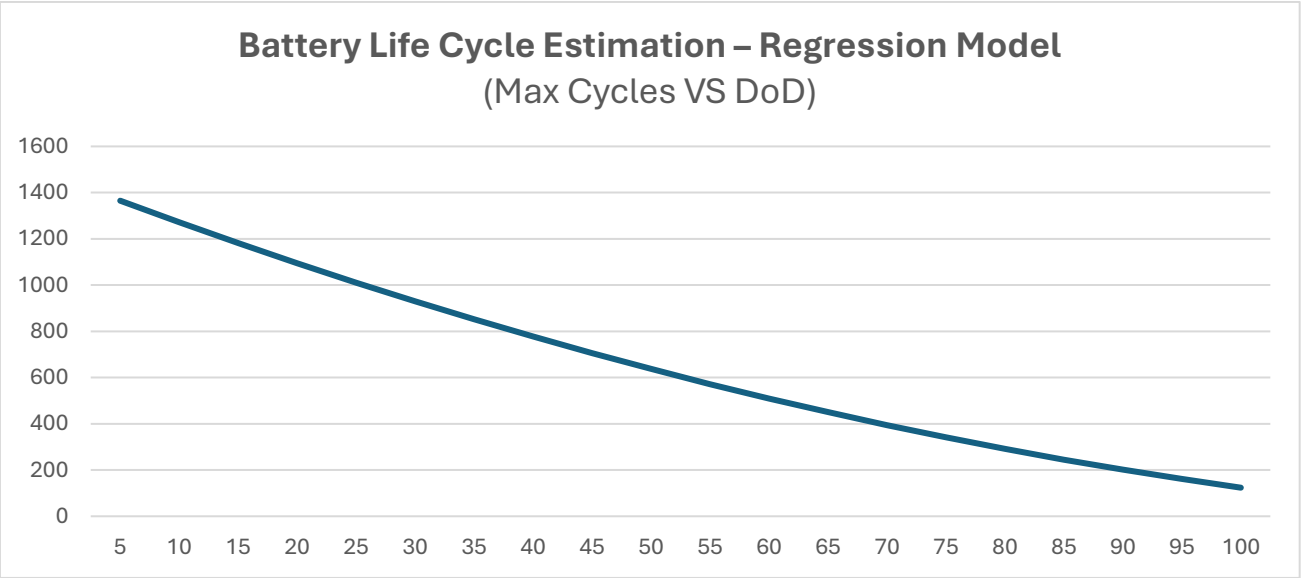


Figure 2- Battery charging cycle

Depending on the battery state of charge (SOC) and weather conditions, there can be one or more charging cycles in one day. Voltages on the graph are given at 25°C (77°F). Lower temperatures will bulk charge to a higher voltage, as well as maintain a higher float charge.

Consommation :

- Typique : 12.8W - Fonctionnement normal, panneau affichage allumé à 34%, 8 heures intensité max, 4 heures demi intensité, 12 heures intensité minimum
- Minimum : 3.7W – Panneau d'affichage OFF
- Maximum : 67.4W – Panneau d'affichage allumé à 100%, intensité max



$Max\_Cycles = 0{,}0622*DoD^2 - 19{,}599*DoD + 1461{,}6$