

SMA SUNNY ISLAND SETTINGS

The Sunny Island products can be used with MPS batteries in 48V mode.

Care should be taken to adjust settings accordingly when having multiple charging sources. When using an external MPPT charge controller, it is recommended to set the SI voltages 0.3V lower than the below settings and have the MPPT 0.3V higher than the SI.

The displayed SOC may not be accurate with a self managed battery. It is recommended to use a BMV-712 from Victron for SOC display and generator starting using 2 wire auto start based on both SOC and low voltage threshold.

It is recommended to replace the temperature sensor with a 2K ohm resistor. Failed resistors can cause over or undercharging.

48V-5.1kWh	
Battery type	Valve regulated lead acid
Nominal battery voltage	48V
Maximum charge current per battery	60A
Recommended charge current per battery	33A
Time for boost charge	3 hours
Time for equalisation charge	3 hours
Time for full charge	3 hours
Discharge cut off voltage	46V
Maximum discharge current	Default
Cell charge nominal voltage boost charge	2.4V
Cell charge nominal voltage for full charge	2.4V
Cell charge nominal voltage for equalization charge	2.4V
Float voltage cyclic	2.38V
Float voltage standby	2.34V
Cycle time full charge	7
Cycle time equalization charge	28
Battery temperature compensation	0
Automatic equalization	Disabled
Voltage set point for disabled BMS	57.6V