

## SMA SUNNY ISLAND SETTINGS

The Sunny Island products can be used with MPS batteries

If the Sunny Island inverter is capable of CAN bus communications, the battery can be run in Lithium managed mode. This removes the need for the below settings.

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-16kWh in lead acid mode (unmanaged)	
Battery type	Valve regulated lead acid
Nominal battery voltage	48V
Maximum charge current per battery	150A
Recommended charge current per battery	150A
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	2.36V
Cell charge nominal voltage for full charge	2.36V
Cell charge nominal voltage for equalization charge	2.36V
Float voltage cyclic	2.36V
Float voltage standby	2.36V
Cycle time full charge	7
Cycle time equalization charge	28
Battery temperature compensation	0
Automatic equalization	Disabled
Voltage set point for disabled BMS	56.8V