

Sonnenschein @ home

Setting the Sunny Island Battery Management

Battery type:

Sonnenschein @ home SH48V8.0
 Sonnenschein @ home SH48V16.0
 Sonnenschein @ home SH48V24.0
 Sonnenschein @ home SH48V32.0

Battery capacity:

C10 = 165 Ah
 C10 = 330 Ah
 C10 = 495 Ah
 C10 = 660 Ah

- During basic configuration of the Sunny Island, enter the following values in the Quick Configuration Guide (see system documentation).
 - Battery type **BatTyp**: VRLA
 - Only in case of a lead-acid battery, nominal voltage of the battery **BatVtgLst**: 48 V
 - Battery capacity **BatCpyNom**:

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SH48V8.0	165 Ah (C10)
SH48V16.0	330 Ah (C10)
SH48V24.0	495 Ah (C10)
SH48V32.0	660 Ah (C10)

- After basic configuration, turn the button on the Sunny Remote Control and select the setting page **Password (1/1)**.

```

i Password <1/1>#
Level      User
  
```

- Press the button to access the setting page.

```

i Password <1/1>
Set        10 #
Runtime    1234 h
  
```

- Calculate the checksum of the operating hours Runtime. This determines the installer password.
 - Example: The value of the operating hours **Runtime** is **1234 h**. The checksum is the sum of all digits: $1 + 2 + 3 + 4 = 10$
- Select **Set** on the Sunny Remote Control and press the button.
- Enter the determined installer password and press the button. The Sunny Remote Control is in installer mode.

```

Installer
100# Meters #
200# Settings
300# Diagnosis
  
```

7. Select the menu **700# Operator Level** and press the button.
8. Select the parameter **700.01 ActLev**, press the button and set to **Expert**.
9. Confirm the question **<accept Y/N>** with **Y**.
10. If a lead-acid battery is used, set the following parameters to the specified values (see Sunny Island documentation for setting the parameters).

```

Installer
500# Operation
600# Direct Access
700# Operator Level#

Operator Level
700#01      <Set>#
              ActLev
              Expert
  
```

ID	Name	Value
221.04	BatTmpMax	40 °C
221.05	BatTmpStr	35°C
222.01	BatChrgCurMax	
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	SH48V8.0	99 A
	SH48V16.0	198 A
	SH48V24.0	297 A
	SH48V32.0	396 A
222.02	AptTmBoost	120 min
222.03	AptTmFul	5 h
222.04	AptTmEqu	10 h
222.05	CycTmFul	14 d
222.06	CycTmEqu	90 d
222.07	ChrgVtgBoost	2,40 V (1) or 2,45 V (2)
222.08	ChrgVtgFul	2,40 V (1) or 2,45 V (2)
222.09	ChrgVtgEqu	2,40 V (1) or 2,45 V (2)
222.10	ChrgVtgFlo	2,27 V

- (1) If correct value for BatWirRes was entered.
- (2) If Default value 0 mΩ was chosen for BatWirRes.

11. The following parameters are only to be set to the specified values if the Sunny Island is used in systems for increased self-consumption.

ID	Name	Value
261.03	Saisonenable	Yes
262.01	ProtResSOC	10 %
262.02	BatResSOC	30%
262.03	BUResSOC	0%
262.04	PVResSOC	5 %
262.05	MinSifCsmplSOC	20 %

