### Installation manual CheckWatt CM10 and Huawei SUN2000 3-10KTL M0/M1 Huawei SUN2000 12-25K MB0 Huawei SUN2000 5-12K MAP0 Updated 2025-04-09

Installation of CheckWatt CM10 and the Huawei inverters is performed according to their manuals. This manual describes how communication between the CheckWatt CM10 and Huawei inverter is established.

Communication between the CM10 and the inverter is carried using Modbus RTU via twisted pair copper cable RS485.

CheckWatt CM10 is compatible with **one inverter** with one or more battery stacks. The inverter **must not be cascaded** with another inverter. If such a connection exists, it must be disconnected before installation begins.

#### Installation must be done in this order:

- 1. Update inverter and battery to required versions
- 2. Unplug dongle
- 3. Connect inverter to CM10 via RS485

**Note**: Ensure that the dongle is unplugged before connecting the inverter to the CM10. Do not plug the dongle in while the system is in operation. With the dongle unplugged the connection to FusionSolar will unfortunately be lost.



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### Firmware update inverter

All settings in FusionSolar require an account with installer permissions.

1 a) Go to Plants and select <b>Update</b> management	Home       Monitoring       Reports       Plants       More       Image: Control of the second
1 b) Click <b>Create</b> .	Device Upgrade
Choose device type: <b>Inverter</b>	Update Task / Create Task Name: Enter a task name. Description: Enter a task description. * Device type: Inverter   Fuelded type: Fuelded team: 1. View Deate
Enable the checkbox for relevant inverter.	*Select Devices: Select Model minits i view Unitalia Device Names: Enter a device na SN: Enter the SN. Select them Company 0 V Plant 0 V Device Name 0 Device Model V SN Comment Version 0 V Device Model V SN Comment Version 0 V SN: Enter the SN. Select them Device Model V SN Comment Version 0 V SN: Select them SN: Enter the SN. Select them SN: SN: Enter the SN. Select them SN: SN: Select the SN. Select them SN: SN: Select the SN. Select them SN: SN: SN: SN: SN: SN: SN: SN: SN: SN:
Select <b>Yes</b> on authorized or not	
Select correct target version as stated below:	
For SUN2000- <b>M1</b> select V100R001C00SPC168	Select Target Version: * Device Model: SUN2000-BKTL-M1 * Target Version:
For SUN2000- <b>MB0</b> select V200R023C10SPC208	
For SUN2000- <b>MAP0</b> select V200R024C00SPC102	
Click <b>OK</b> .	

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### Firmware update battery

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#### Settings in FusionSolar

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Go to List view -> Settings in this vie charge and disch <b>Parameters setti</b> Maximum charge Maximum discha End-of-charge SC End-of-discharge Charge from AC: AC charge cutoff	<b>Battery</b> -> Con ew affects how arge from/to th <b>ngs</b> e power: rge power: oC: SOC:	figuration the battery he grid. Highest po 100 5 Enable 100	y is allowed to ossible ossible			
Click <b>Set</b>						
<ul> <li>En</li> <li>Dongle-1</li> <li>Diverter-1</li> <li>Battery-1</li> <li>Meter-1</li> </ul>	Device Information Device Name: Battery-1 Parameters settings Maximum charge pr 5000 End-of-discharge S 5.0	ower (W): [0~5000] SOC (%) ⊚ : [0.0~20.0]	Superior equipment: Inverter-1 Maximum discharge p 5000 Charge from AC: Enable	ower (W): [0~5000]	Type: Battery End-of-charge SOC ( 100.0 AC charge cutoff SOC 100.0	%): [90.0~100.0] (%): [20.0~100.0]
	End-of-discharge 5	SOC (%) ⑦ : [0.0~20.0]	Charge from AC:		AC charge cutoff SOC	(%): [20.0~100.0

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### Settings in FusionSolar

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Go to List view -> <b>Inverter</b> -> Configuration Check the following values <b>Power adjustment settings</b> Active power percentage derating (%): 100%							
Click <b>Save</b>							
<ul> <li>€Inter a device name</li> <li>€</li> <li>€</li> <li>© Dongle-1</li> <li>© Battery-1</li> <li>© Meter-1</li> </ul>	Details       Alarms       Historical Information       Configurat         Average active power filtering time (ms):       60000       [20-300000]         Active power percentage derating (%):       100.0       [-100.0-100.0]         Reactive power compensation (Q/S):       0.000       [-1.000-1.000]         Apparent power baseline (kVA):       8.800       [8.800-8.800]	Active power change gradient (%/s):   125.000 [0.100-5000.000]   Reactive power change gradient (%/s): [125.000   125.000 [0.100-5000.000]   Reactive power curve adjustment: ⑦   Disabled ⑦   Active power baseline (kW): 8.800   8.800 [0.100-8.800]	Fixed active power derating (W):         200       [0-8800]         Reactive power compensation (PF):         1.000       (-1.0000.800] U         1.800       [0.100-8.800]				

For questions, contact CheckWatt support at +46 101886565 or <a href="mailto:support@checkwatt.se">support@checkwatt.se</a>



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#### Installation: Internet connection and communication



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