Installation manual CheckWatt CM10 and GoodWe Hybrid inverter Updated 2024-06-27

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

Communication between the CM10 and the GoodWe hybrid inverter is done using Modbus TCP via a CAT6 FTP network cable. Ensure that the correct dongle is used for the inverter.

Compatible inverters:

Goodwe 15k-30k ET (med Wifi+LAN 2.0 dongle) - Commission only on bluetooth

Max inverters per CM10:1





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1. Internet connection and IP settings in GoodWe



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1. Internet connection and IP settings in GoodWe

1 c) Select WI AN/I AN	< Communication Settings
	Privacy & Security
	WLAN/LAN >
	4G >
	RS485
1 d) Turn on LAN and turn on DHCP . Then click Save and Exit .	< WLAN/LAN Save
	WLAN
	LAN Connected
	DHCP If you need to set a specific IP address, you can manually enter it after turning off DHCP.
	IP Address 1
	Subnet Mask 2
	Gateway Address
	DNS Server 1

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2. Connection between CM10 and GoodWe



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3. Verify internet connection

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Verify internet connection and	< WLAN/LAN	Save	
IP-address from CheckWatt CM10	WLAN		
Follow the same steps as in 1. Internet and	LAN Cor	nected	
Ensure that the IP settings are in line with	DHCP If you need to set a specific IP address, you can manually enter it after turning off DHCP.		
the installation manual for the CM10	IP Address 192.168	3.5.101	
	Subnet Mask 255.255	.255.0	
	Gateway Address 192.1	168.5.1	
	DNS Server 192.1	168.5.1	
Wait until LED next to the WiFi symbol emits a steady light. The system is now ready to be connected to the CheckWatt virtual power plant Currently	C		
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Select Power Limit	Advanced Settings function enabled Please check if turned on this function and cable connection. For the detail please refer to the manual and local regulations. Backup N And PE Relay Switch ON: During off-grid operation, Backup N and PE are connected inside the inverter. OFF: During off-grid operation, Backup N and PE are disconnected inside the inverter. Set this parameter according to local power grid installation regulations.
	Power Limit >
	Battery Function >
	Safety Parameter Settings >
	< Power Limit
Turn off Power limit If it is on, it means that power from the battery cannot be fed into the grid	Power Limit
	External CT Ratio 0 0 ✓ Range[0,3000] 1. If the current of the primary side and secondary side of the selected CT is 3000A:5A, please enter the CT ratio value of 600, and so on. 2. The secondary current of the external CT should be ≤5A. Only the CT ratio of the electric meter GM330/GM3000C can be set. For other models (2004) as GM30000, it is forbidden to set the CT ratio,
	otherwise the electric meter cannot work normally.

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tt Battery setting.		Advanced S	ettings
		function enabled Please check if turned on this function and cable connection. For the detail please refer to the manual and local regulations. Backup N And PE Relay Switch ON: During off-grid operation, Backup N and PE are connected inside the inverter. OFF: During off-grid operation, Backup N and PE are disconnected inside the inverter.	
		installation regulations.	s to rocal porter gird
		DC AFCI Detection	>
		Battery Function	>
		Safety Parameter Settin	gs >
		PV Connect Mode	>
SOC Protection.		< Battery Fu	nction Save
		SOC Protection ON:Turn on the protectio battery capacity is lower threshold	n function when the than the set
		Immediate Charging	Charge Complete
		SOC For Stopping Charging Range[0,100]%	0 0
		Immediate Charging Power Range[0,100]%	0 0
		-	
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