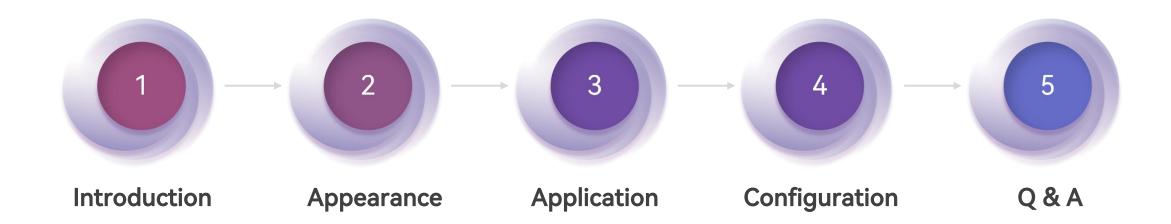


### **INTEG-R Smart Meter and CT Introduction**

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## CONTENT





## 01 FIntroduction

#### Highlights

7X24H load power consumption monitoring\*

**†** Accurate export limitation and control

% High current measurement precision

High compatibility for grid type

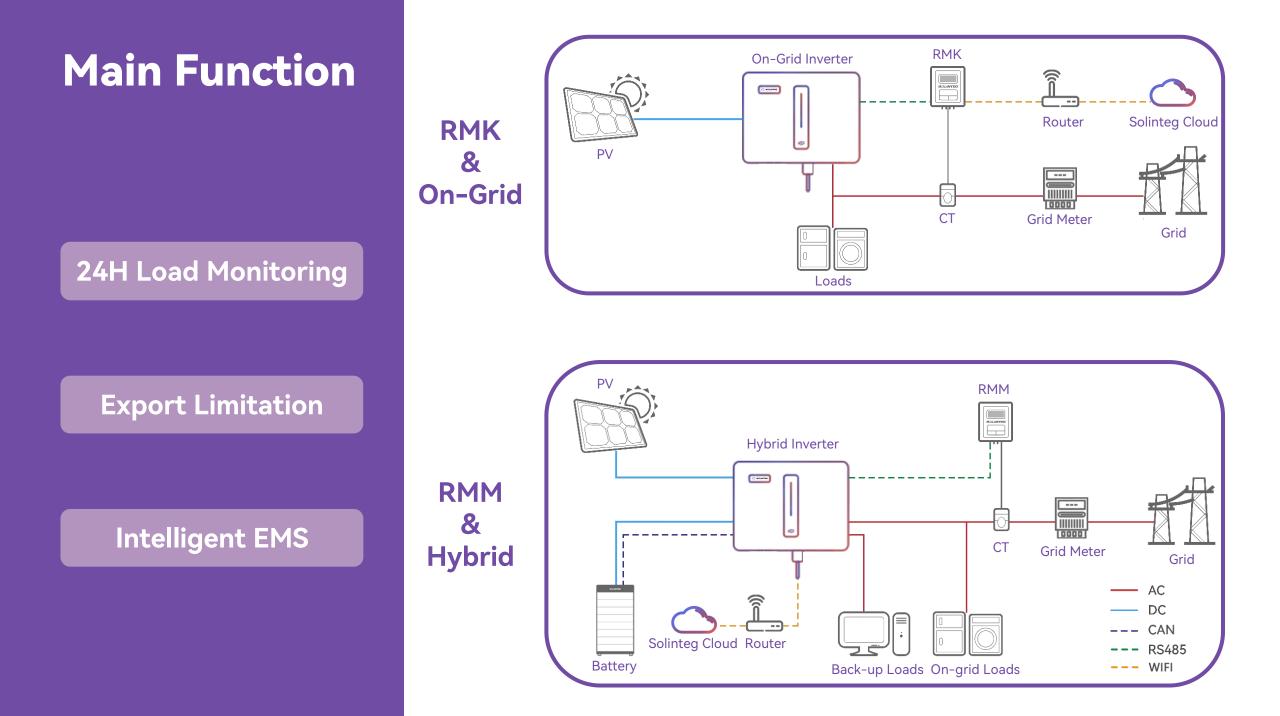
OLED display and physical buttons for easy use

**Communication with RS485, WiFi/LAN(RMK only)** 

Easy installation with DIN35mm rail



\*: RMM with hybrid inverter or RMK with on-grid inverter only.



### **Key Parameters**

. phase

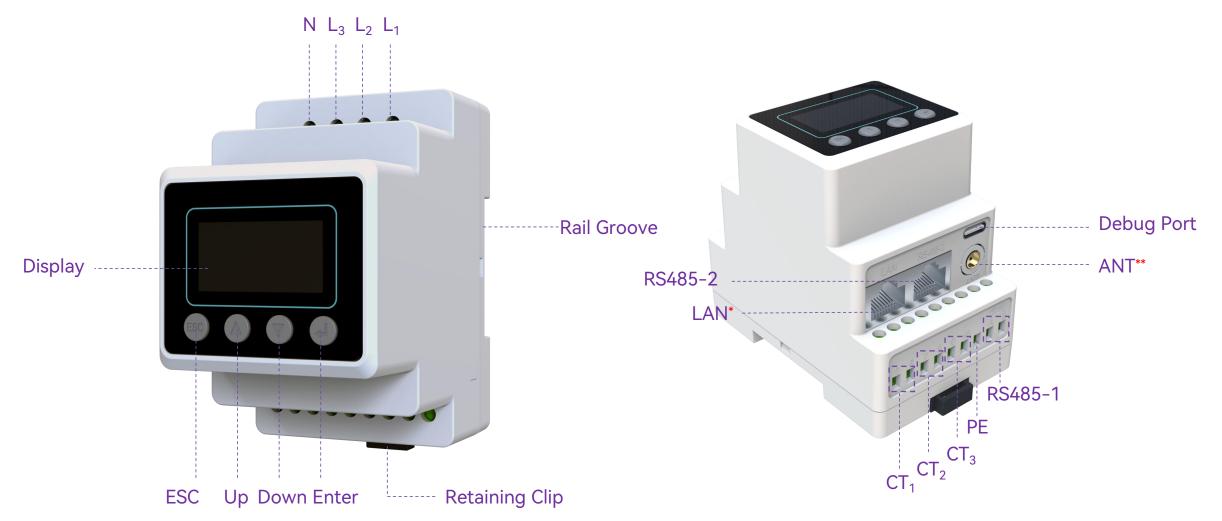
MODEL	RMM-MA	RMK-MA	RMM-5A	RMK-5A				
Signal and power input								
Rated Voltage		230/400V	1					
Rated Current (Secondary side)	≤ 1	00mA		≤ 5A				
Rated Frequency		50/60 Hz						
Sampling Current overload		neous: 2times / 10s						
Accuracy	racy							
Current/Voltage	0.50% ±0.01Hz Class 0.5S							
Frequency								
Power (Active /Reactive)								
General Data								
Display		OLED						
Communication	RS485	RS485, WiFi/LAN	RS485	RS485, WiFi/LAN				
Self-consumption	< 5VA	< 7.5VA	< 5VA	< 7.5VA				
Installation		35mm DIN R	IN Rail					
СТ	Wi	th		Without				
<b> ↔ </b>		0.5%	0.5%					
Suitable for various grid 230-400V, Three- phase/Split-phase/Single-	accurate power control and			OLED display, multiple communication, easy to use and install				



Communication: RS485 Self-consumption: < 5VA Applicable Series: MHS, MHT, OGT	<b>Communication:</b> RS485, WiFi/LAN <b>Self-consumption:</b> < 7.5VA <b>Applicable Series:</b> OGS, OGT		
RMM	RMK		
MA	5A		
MA CT: With, 120A/200A/300A optional	5A CT: Without, Self-purchase		

# 02 7 Appearance





\*: The LAN port does not function on the RMM series. \*\*: RMM series don't have ANT port.

#### **Appearance** — MA Series



#### NOTE:

#### MA series are delivered with matched CT(s) \*.

Each CT in each package is calibrated and tested, which cannot be interchanged with other CT within the same device or other devices.

Three CT sizes meet various demands: Φ16 120A / Φ24 200A / Φ35 300A (optional)

Select the CT type according to the primary side current and wire diameter.

\*: 5A series are not delivered with CT. CT purchase standard: secondary side output 5A, CT accuracy of 0.5, and maximum CT conversion ratio of 5000:5.

#### Appearance —— Screen





Communicated with inverter by RS485-1



Communicated with inverter by RS485-2



Network connection status

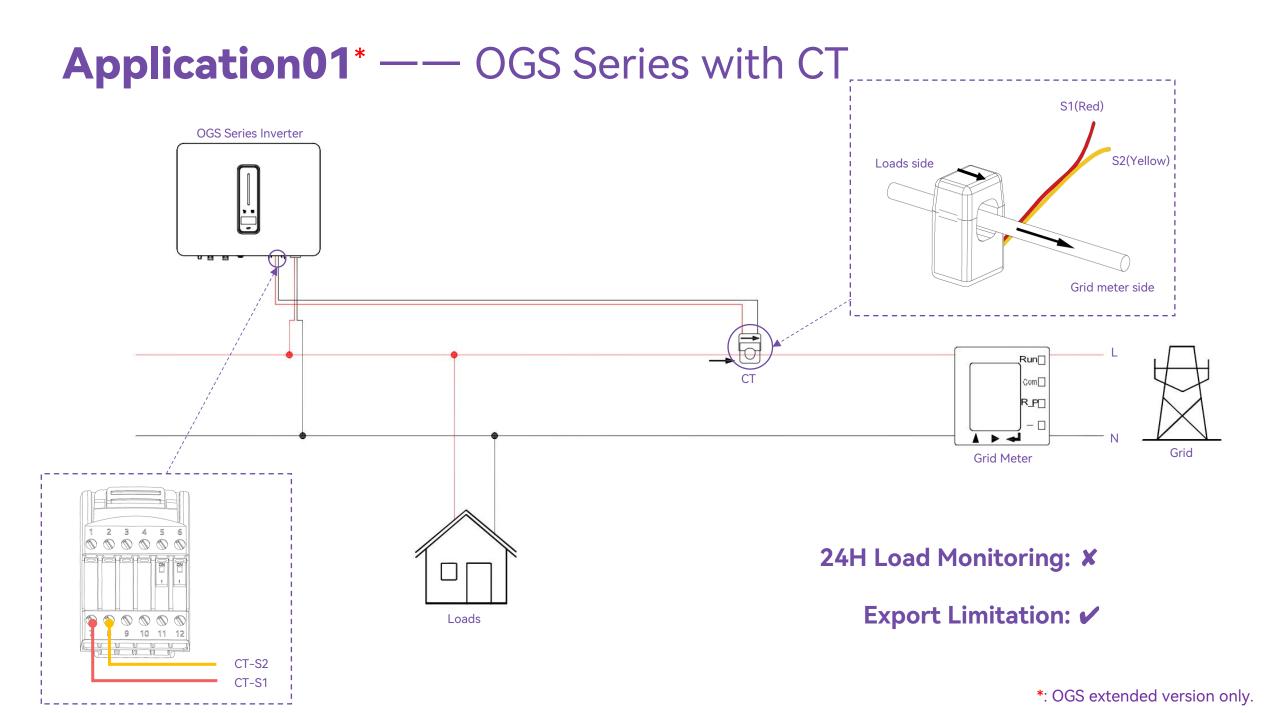


Communicated with server by WIFI

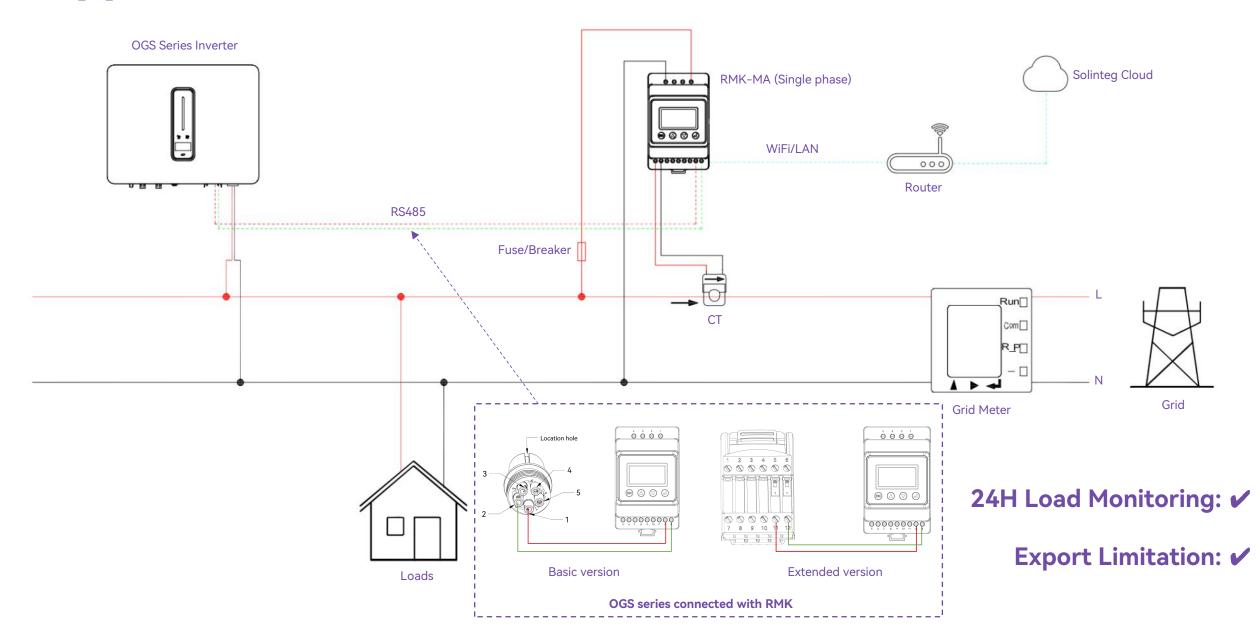


Communicated with server by LAN

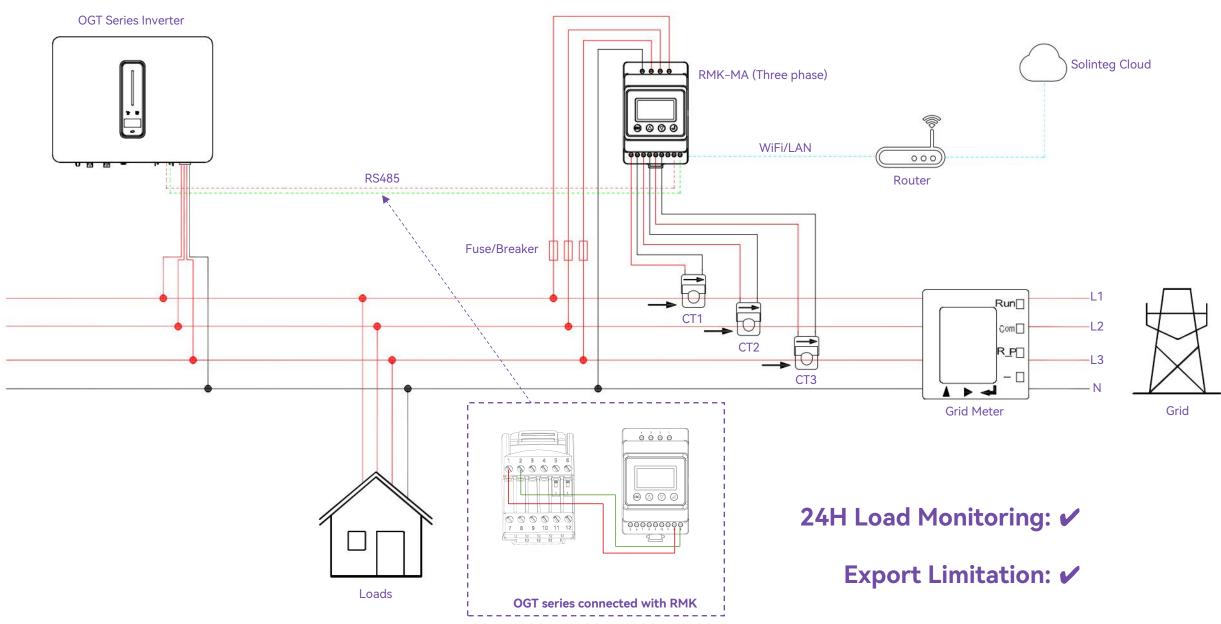
# 03 7 Application



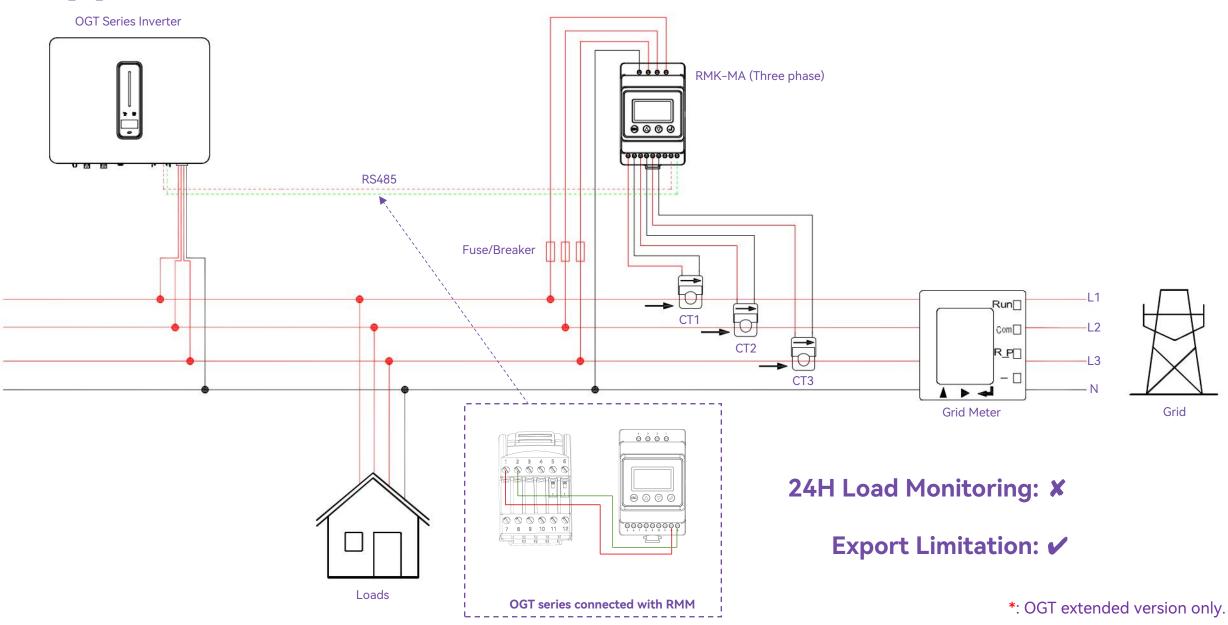
#### **Application02** — OGS Series with RMK



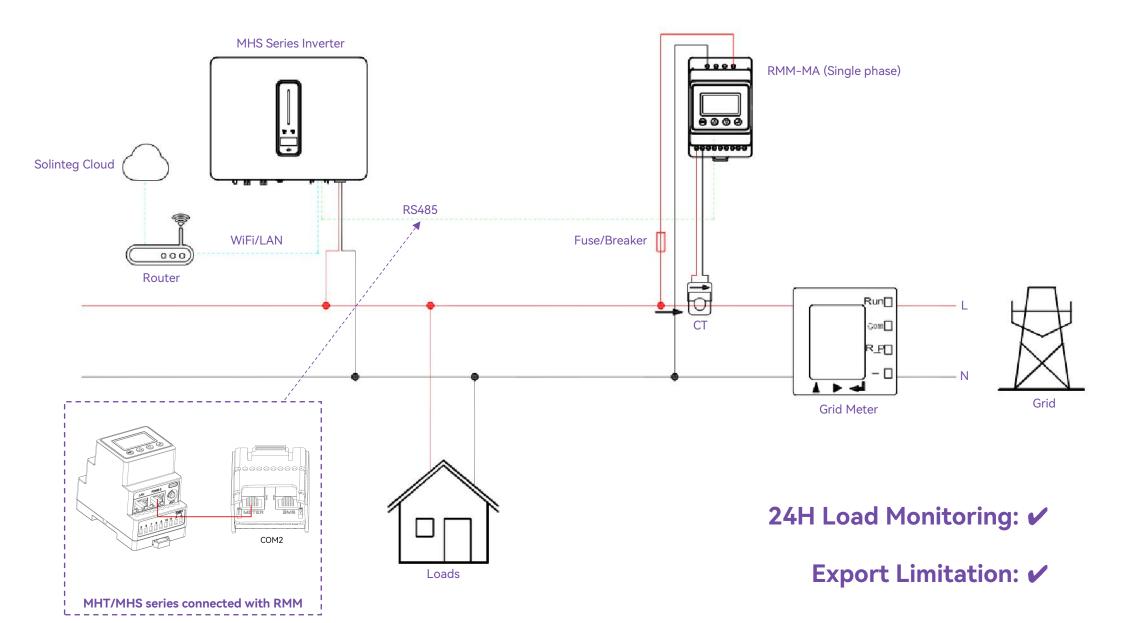
#### **Application03** — OGT Series with RMK



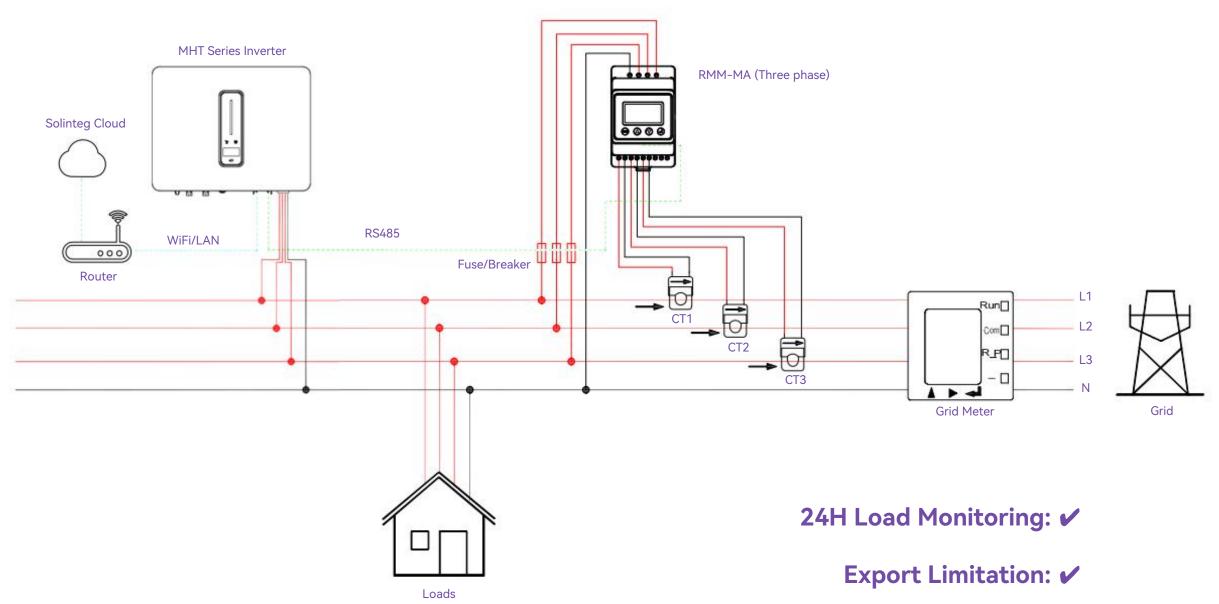
#### **Application04** — OGT Series with RMM\*



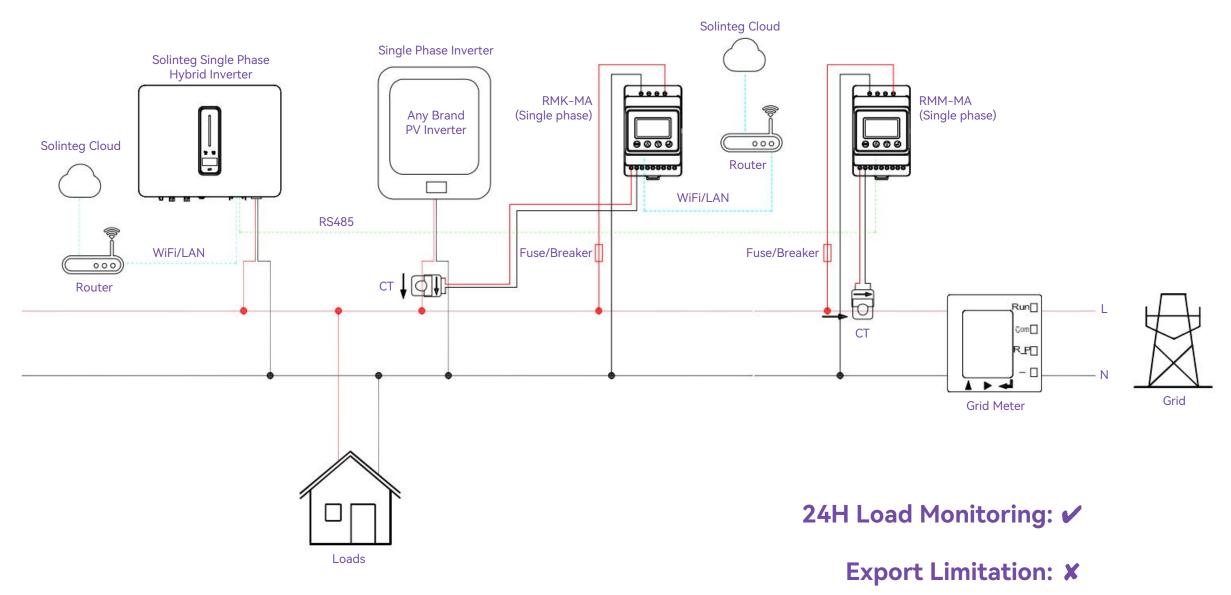
#### **Application05** — MHS Series with RMM



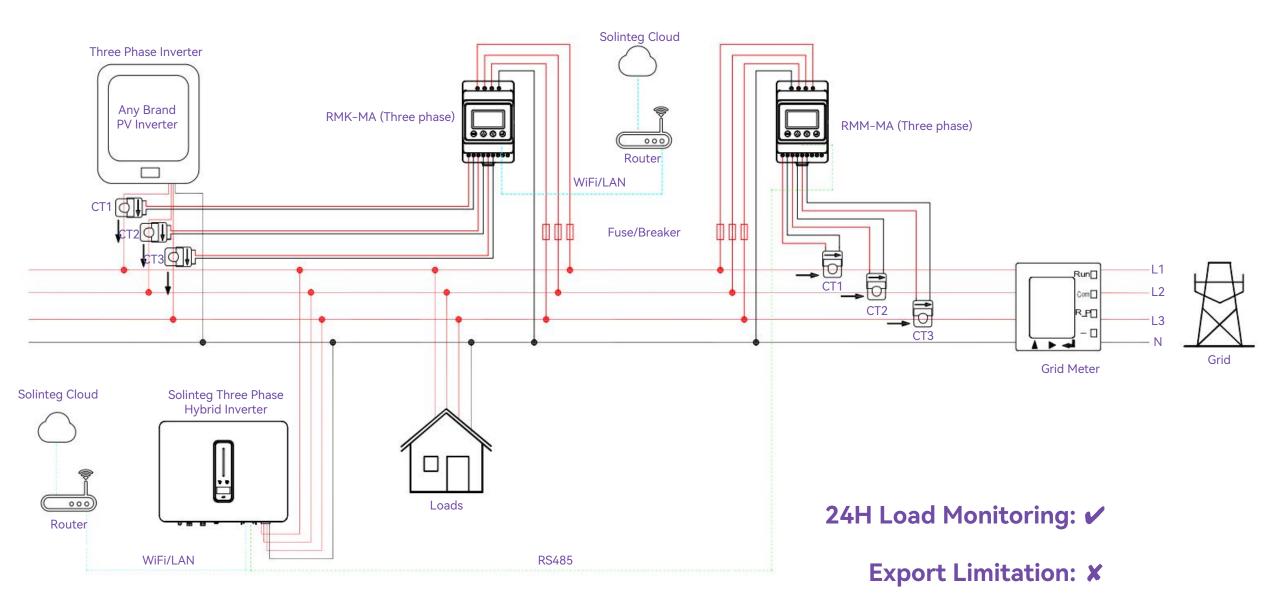
#### **Application06** — MHT Series with RMM



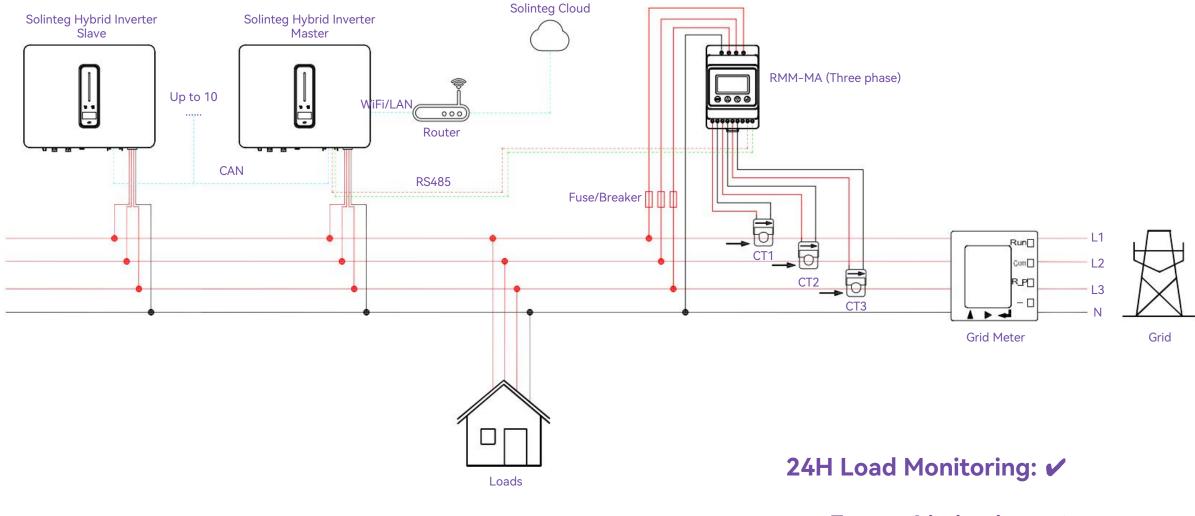
#### **Application07** —— Single Phase AC Coupled System



#### **Application08** — Three Phase AC Coupled System

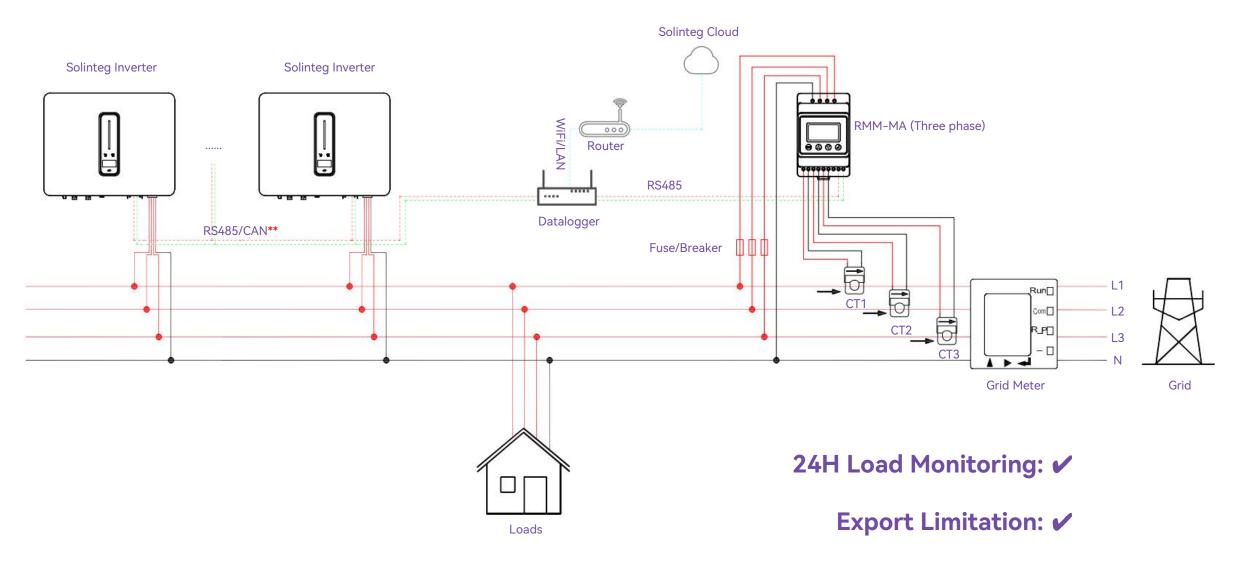


### **Application09** — Hybrid Master-slave Parallel System



Export Limitation: 🗸

#### **Application10** — Multiple Inverters\* System



\*: The inverters must be of the same type, i.e. all the inverters connected to a datalogger must all be hybrid or all be on-grid.

\*\*: RS485 for on-grid inverters communication, up to 90 units; CAN for hybrid inverters parallel, up to 10 units.

## 04 **F Configuration**

#### Configuration

MODEL	LAN/WIFI	DHCP	CT RATIO	GRID TYPE	GRID FREQUENCY
RMM-MA	/	/	/	0	0
RMK-MA	•	0	/	0	0
RMM-5A	/	/	•	0	0
RMK-5A	•	0	•	0	0

•: Need/Suggest to be configured.

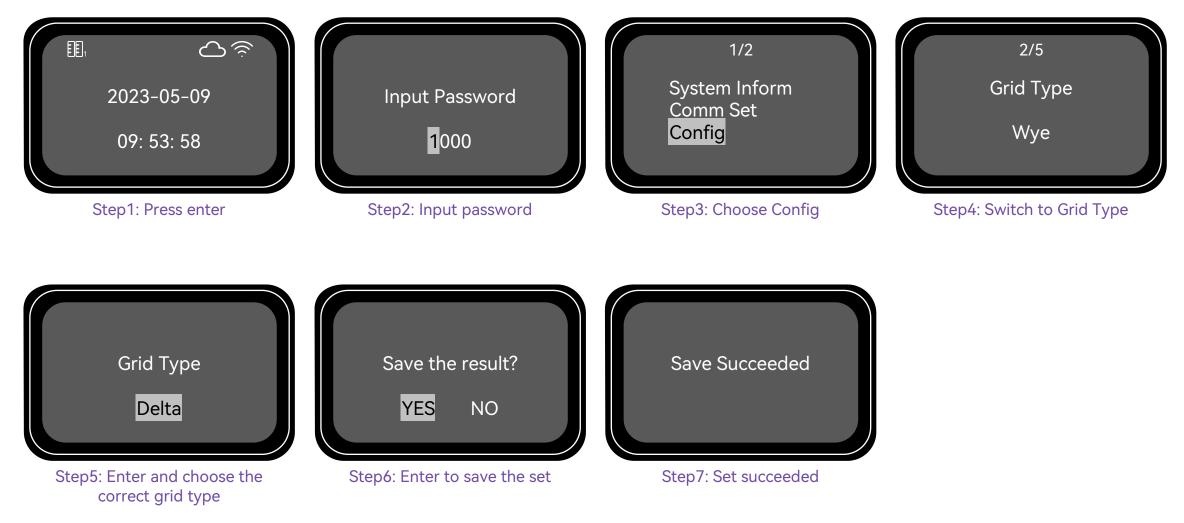
O: Whether to configure it according to site actual requirement.

/: No this option.

#### **Configuration** — RMK Series Network Configuration

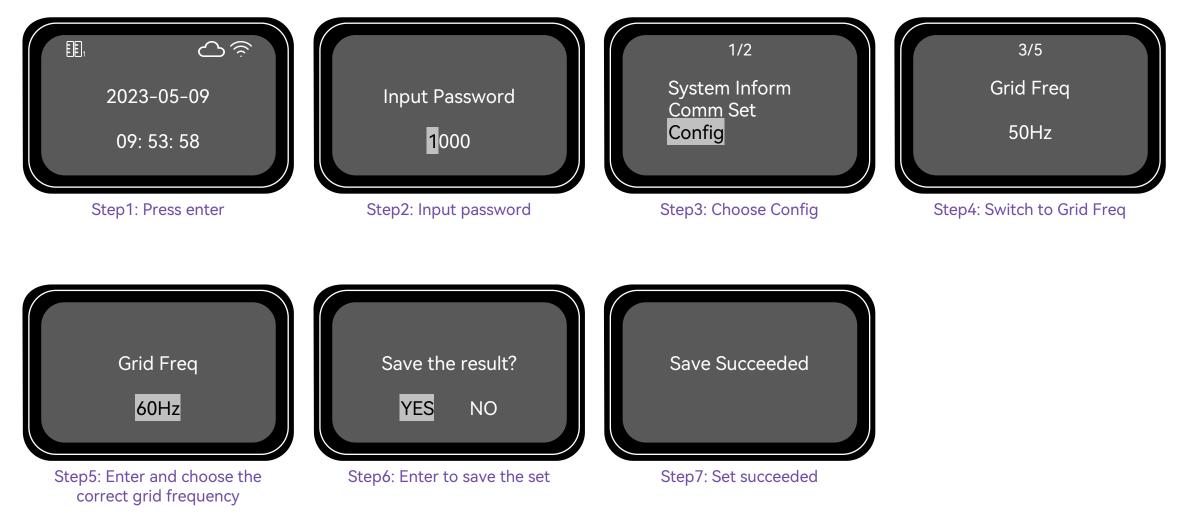


#### **Configuration** — Grid Type\* Configuration



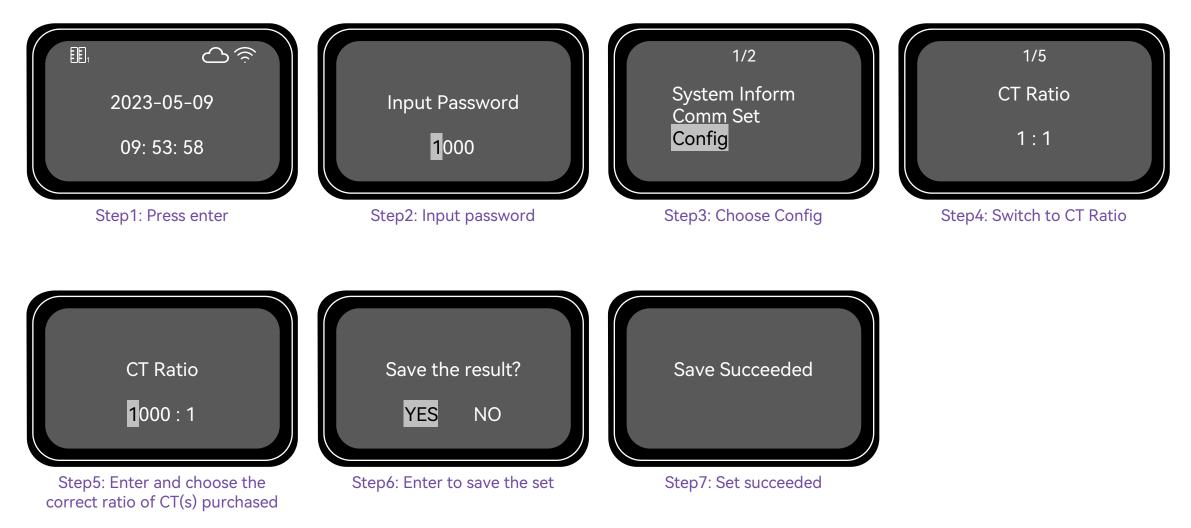
\*: Default grid type is Wye.

#### **Configuration** — Grid Frequency\* Configuration



\*: Default grid frequency is 50Hz.

#### **Configuration** — 5A Series\* CT Ratio Configuration



\*: CT ratio of MA series is fixed and can not change.

# 05 7Q&A



Q: Can customers purchase only the inverter without the meter?

A: Yes. But only for on-grid inverters. The export limitation function and the load power consumption monitoring function will not be available without the meter. Hybrid inverter can not work properly without the meter.

Q: What brands of meters can Solinteg inverters be compatible with?

A: Solinteg RMM/RMK series; Acrel ACR10RH for hybrid inverters.

Q: Can solinteg smart meter communicate with other brands inverter diretcly?

A: No, we haven't yet made compatibility with other brands inverter.



Q: Can RMK series be used for hybrid inverters?

A: No.

Q: Can RMM series be used for on-grid inverters?

A: Yes, but not recommended. The RMM cannot communicate with the server directly, so load power monitoring is not available at night.

Q: Can the inverter 100% limit power export with the meter?

A: No meter can 100% limit the power. Because of CT accuracy and system response time, all meters will have a small amount of error (within 1% of Solinteg meter) even when the power limitation is turned on to 100%. And the meter meets the relevant requirements is enough.



### **THANK YOU**

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