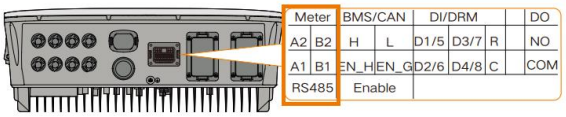
3-phase Hybrids-FAQ

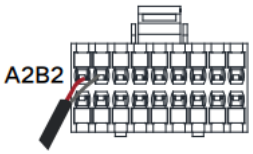
Negative load data of SHxxRT inverters in iSolarCloud

Applicable to: SHxxRT series

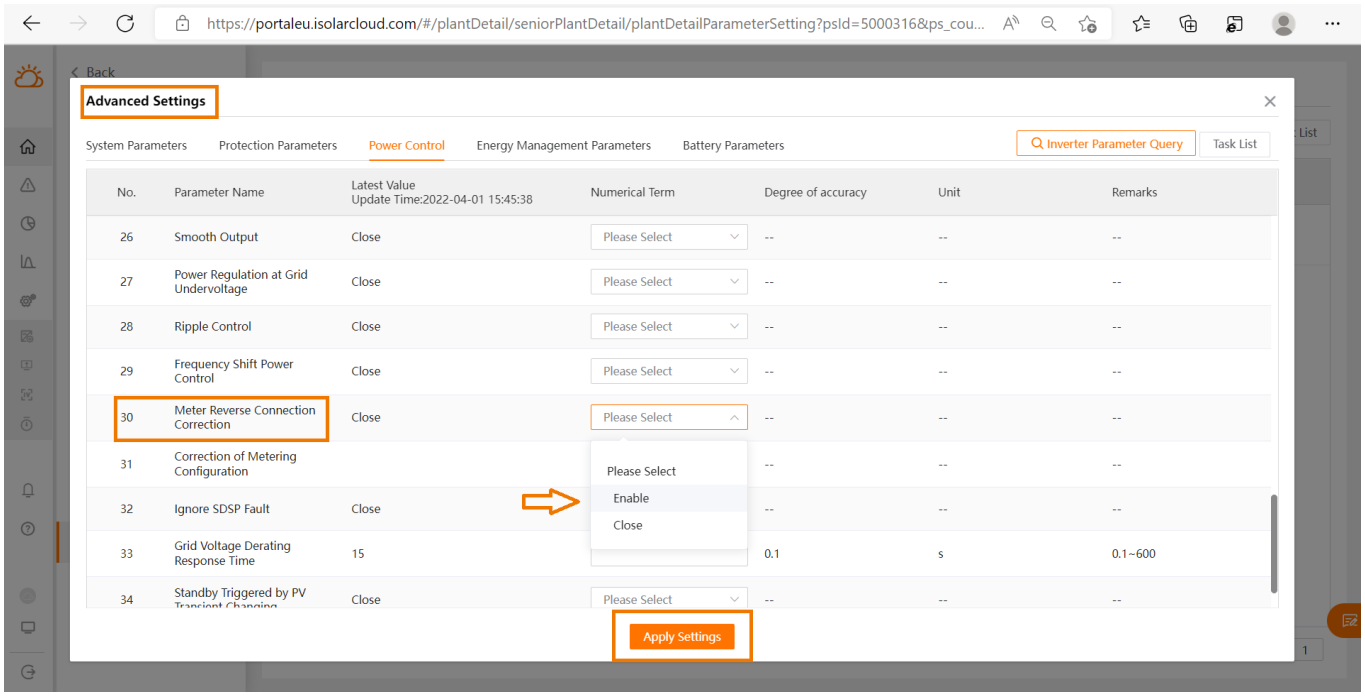
1. In the current application of inverters, negative load data often appear in iSolarCloud Monitoring System, which is abnormal. Under normal circumstances, the load value is only positive in the iSolarCloud Monitoring System, while the positive battery data represents discharge and the negative value represents charging; The positive value of grid data represents the grid-side output, and the negative value represents the feed-in.
2. Load data is obtained through the data of electric meters connected on site. Usually, when the load displays negative values, we need to confirm whether the cable connection of electric meter is normal and whether CT is connected reversely.



Label	Description
Meter (A2, B2)	For Smart Energy Meter For the inverter daisy chain (Slave inverter)
RS485 (A1, B1)	For the LG battery connection For the inverter daisy chain (Master inverter) * For Italy: remote shutdown
BMS/CAN	For battery communication
Enable	* For Li-on battery from LG
DI/DRM	"AU"/"NZ": Demand response enabling device (DRED) "IT": Interface protection system (SPI) "DE": Ripple Control Receiver (RCR), NS Protection
DO	For home load, e.g. SG Ready Heat Pump For alarm warning, e.g. light indicator and/or buzzer



3. If it is inconvenient to check the connection on site, the reversed connection can be corrected by modifying the Meter Reverse Connection Correction, which is equivalent to physically adjusting the phase sequence of the meter, so as to further locate whether it is a negative value problem caused by reversed connection.



For further information, please download the user manual here.

This manual is intended for professional technicians who are responsible for installation, operation, maintenance and troubleshooting of inverters, and users who need to check inverter parameters. The inverter must only be installed by professional technicians.
The professional technician is required to meet the following requirements:

- Know electronic, electrical wiring and mechanical expertise, and be familiar with electrical and mechanical schematics.
- Have received professional training related to the installation, commissioning and troubleshooting of electrical equipment.
- Be able to quickly respond to hazards or emergencies that occur during installation, commissioning and troubleshooting.
- Be familiar with local standards and relevant safety regulations of electrical systems.
- Read this manual thoroughly and understand the safety instructions related to operations.