

RHI-3P(3-10)K-HVES-5G Parallel Operation



Applicable Devices:

- RHI-3P(3-10)K-HVES-5G
- Solis-EPM3-5G-PLUS
- Solis 3 phase PV inverters

Application Scenario:

The Solis-EPM3-5G-PLUS is installed at the system grid connection point as the sampling unit. And it communicates with multiple RHI-3P(3-10)K-HVES-5G and Solis 3 phase PV inverters to realize the self-use control logic

Below settings must be followed to ensure the correct control logic:

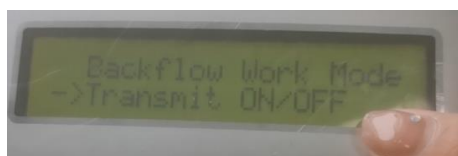


1.EPM

1.1 Transmit ON/OFF

Set to: **OFF**

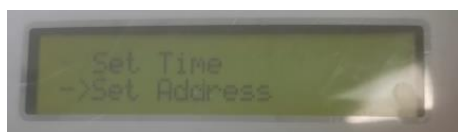
Path: Advanced setting → Password :0010 → Transmit ON/OFF → OFF



1.2. Address

Set to: **01**

Path: Setting → Set address → 01

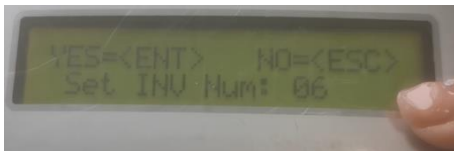


1.3. Inverter Qty Set

Set to: **Max number of slave address among all inverters**

Path: Advanced setting → Password :0010 → Inverter Qty → Set INV Number → Max number of slave address among all inverters

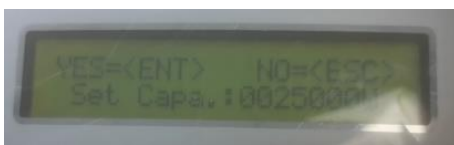
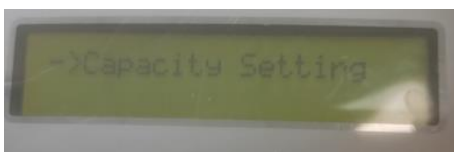
(Example: 3 hybrid inverters in parallel with slave address 02, 04, 06. Set Inverter Qty.Set to 06)



1.4. Set Capacity

Set to: **Adding up the “Rated Power” of all inverters under the EPM**

Path: Advanced setting → Password :0010 → Set Capacity → Adding up the “Rated Power” of all inverters under the EPM

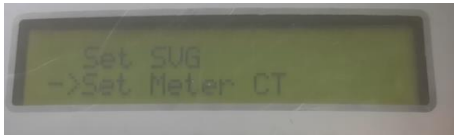


1.5. Set Meter CT

Set to: **CT ratio of the external CT**

Path: Advanced setting→Password :0010→Set Meter CT→CT ratio of the external CT

(Example: If 100A:5A CT are used, set the CT ratio as 20:1)



1.6. Backflow Power

Set to: **Allowed backflow power.**

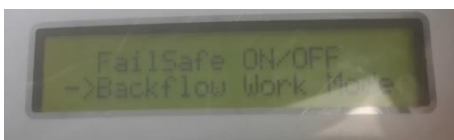
Path: Advanced setting→Password :0010→Backflow Power→Set Power→Allowed backflow power.



1.7. Backflow work mode

Set to: **01**

Path: Advanced setting→Password :0010→Backflow work mode→01

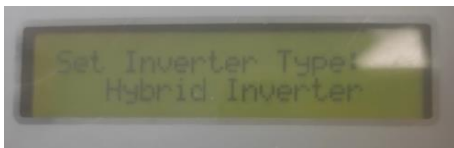
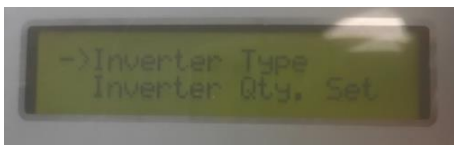




1.8. Inverter type

Set to: **If there is a hybrid inverter, select “hybrid inverter”; If all with grid tied inverters, choose “PV inverter”**

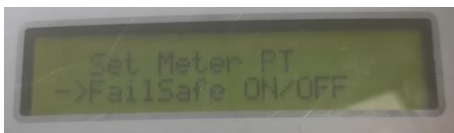
Path: Advanced setting→Password :0010→Inverter Type→Hybrid inverter(If there is a hybrid inverter, select “hybrid inverter”; If all with grid tied inverters, choose “PV inverter”)



1.9.FailSafe ON/OFF

Set to: **Run**

Path: Advanced setting→Password :0010→FailSafe ON/OFF→FailSafe:RUN

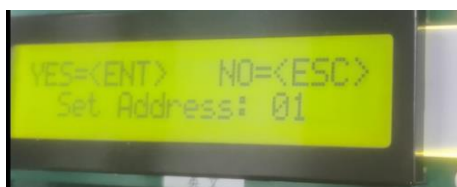


2. Solis 3 phase PV inverters

2.1 Set Address

Set to : **Odd Number (01, 03, 05, etc). Set to different on different inverters**

Path: Setting → Set address → Odd number



2.2 Internal EPM Set

Set to : **OFF**

Path: Advanced setting → Password :0010 → Internal EPM set → Mode Select: OFF

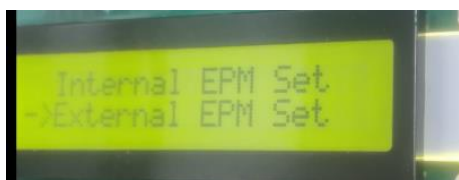




2.3 External EPM Set

Set to: **ON**

Path: Advanced setting → Password :0010 → External EPM set → 5G-EPM → Fail Safe Set: ON

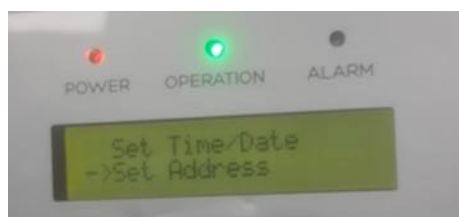
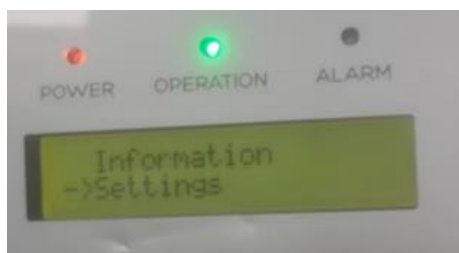


3. Hybrid inverters

3.1 Set Address

Set to : **Even Number (02, 04, 06, etc).** Set to different on different inverters

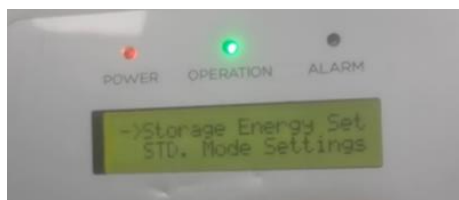
Path: Setting → Set address → Even number



3.2 Meter Select

Set to: **No Meter**

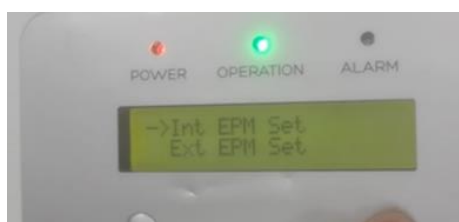
Path: Advanced setting→Password:0010→Storage Energy Set→Meter Select→No meter

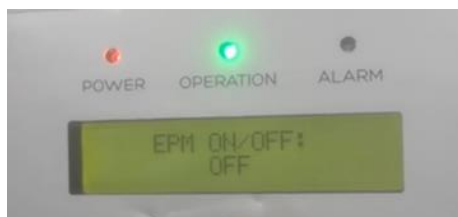


3.3 Int EPM Set

Set to: **OFF**

Path: Advanced setting→Password:0010→Int EPM Set→EPM ON/OFF→OFF

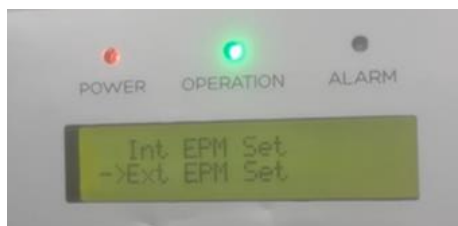




3.4 Ext EPM Set

Set to: **ON**

Path: Advanced setting→Password:0010→Ext EPM Set→Ext EPM ON/OFF→ON→Fail Safe ON/OFF→ON



3.5 Self Use Mode

Set to: **ON and Allow grid charging**

Path: Advanced setting→Password:0010→Stg Mode Select→Self use→ON→Charging from grid→Allow

