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Requirement of Zero Export Systems



In the regions where FIT is not available, export control systems allows implementation of solar PV systems for self consumption.

Zero export control can allow for:

- larger PV systems to be installed
- simplified design where oversizing becomes more cost effective
- potentially avoid extensive grid studies and NVD
- standardized commercial PV system offering
- reduction in application processing time
- > Installing active power control to restrict export to the grid by a commercial PV system will lower the risks to a project.

Main components of the Zero export PV system



On-Grid PV inverter



Controller



SMA Sunny Home Manager up to 300kW





Feedback/ Smart Meter



SMA Energy Meter (LV connection)





On-grid PV inverters - Residential and Commercial











SB1.5/2.0/2.5-1VL-40 SB3.0/3.6/4.0/5.0/6.0-1AV-41

STP3.0/4.0/5.0/6.0-1AV-40 STP8.0/10.0-1AV-40

STP15000/20000/25000TL-30 STP50-40, STP50-41 STP110-60 SHP 75/100/150

Monitoring and Control



- Data recording, monitoring and control of decentralized PV systems is even simpler, faster and more efficient.
- Specifically tailored to the needs of PV system operators, PV system managers and service technicians.
- Supports up to 50 devices or 2.5MW
- Master-Slave topology for systems more than 50 inverters
- Two powerful components perfectly in tune with each other
- Cutting-edge, uniform UI design
- Future-oriented functions for an automated grid management service
- Access to the quickly changing energy market of the future via ennexOS

Data Manager M and Sunny Portal powered by ennexOS



DATA MANAGER M and SUNNY PORTAL powered by ennexOS



Central communication unit

Always up-to-date due to automatic update function.



Open interfaces

- Ripple control receiver interface (4 DIs + fast stop)
- Direct marketing interface
- SCADA interface (Modbus/TCP)

User administration

- One central administration account
- Access via Sunny Portal account

Fast configuration and commissioning

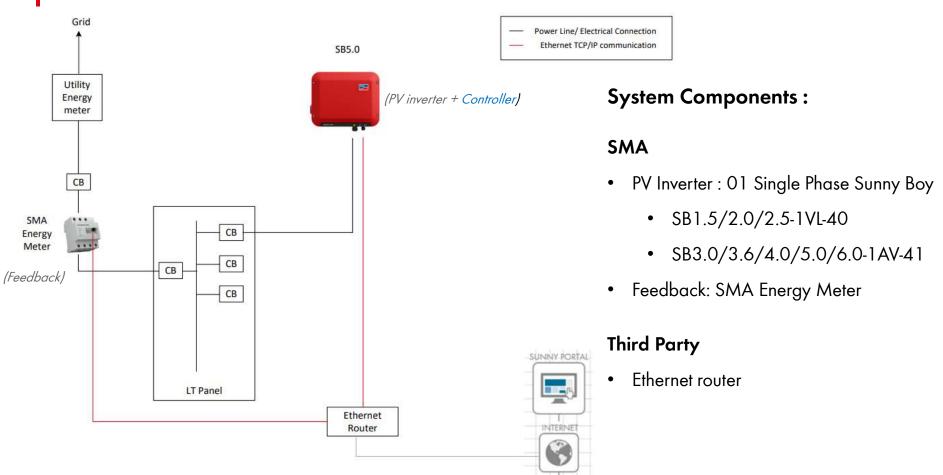
- Convenient commissioning via integrated set-up assistant
- Secure remote configuration of the Data Manager and inverters

Improved grid system services

- Zero export
- Reactive power functions (Q setpoint, $\cos \varphi$ setpoint, Q(V))

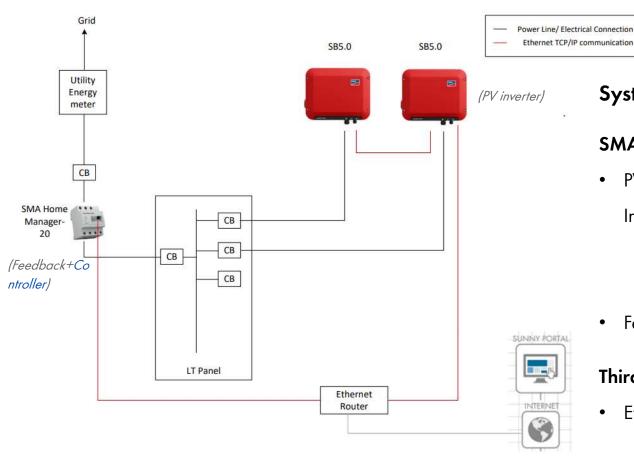
Single Phase Zero Export Systems with Single Inverter system





Single Phase Zero Export Systems with Multiple Inverter system





System Components:

SMA

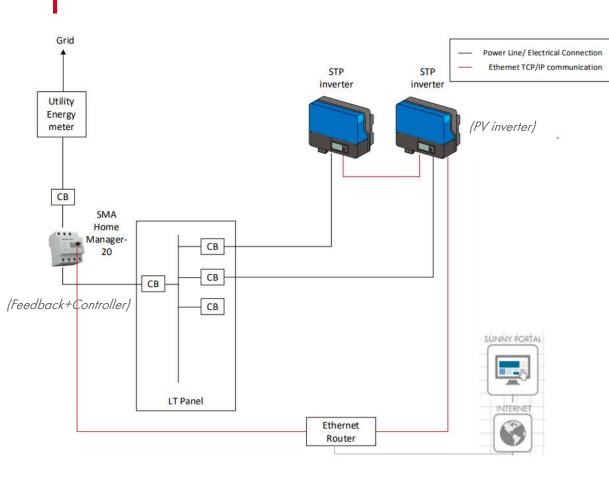
- PV Inverter: 2 or more Single Phase Sunny Boy Inverters
 - SB1.5/2.0/2.5-1VL-40
 - SB3.0/3.6/4.0/5.0/6.0-1AV-41
- Feedback: SMA Sunny Home Manager 2.0

Third Party

Ethernet router

Three Phase Zero Export Systems (up to 300kW or 12 inverters)





System Components:

SMA

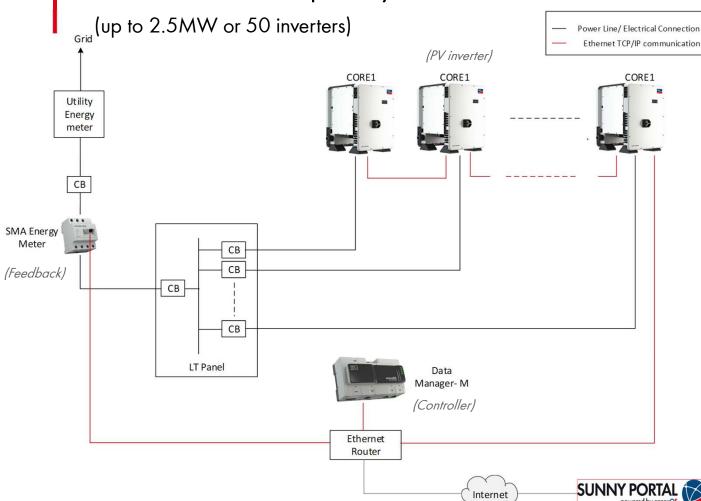
- PV Inverter: Three Phase Sunny Tripower Inverters
 - STP3.0/4.0/5.0/6.0-1AV-40
 - STP8.0/10.0-1AV-40
 - STP15000/20000/25000TL-30
 - STP50-40, STP50-41
- Feedback: SMA Sunny Home Manager 2.0

Third Party

• Ethernet router

Three Phase Zero Export Systems - LV Connection





System Components:

SMA

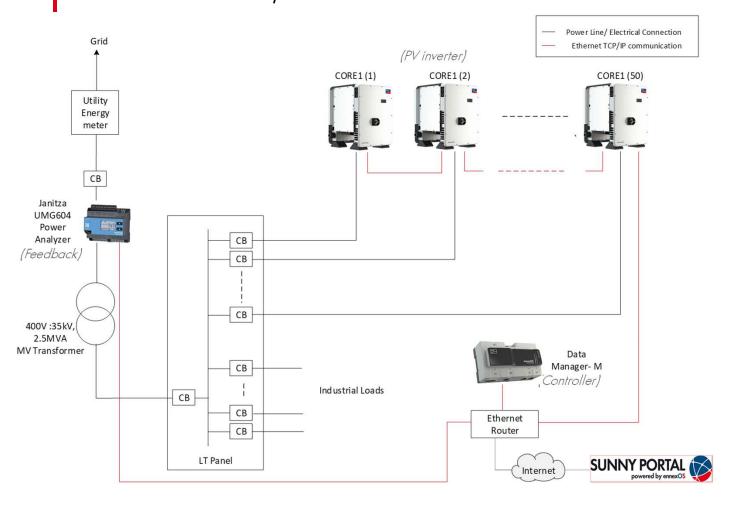
- PV Inverter : Three Phase Sunny Tripower Inverters
 - STP15000/20000/25000TL-30
 - STP50-40, STP50-41
 - STP110-60 (20 devices per EDMM)
- Controller: SMA Data Manager-M
- Feedback: SMA Energy Meter

Third Party

- Ethernet router
- Ethernet Cables

Three Phase Zero Export Systems – MV or HV connection (up to 2.5MW or 50 inverters)





System Components:

SMA

- PV Inverter: Three Phase Sunny Tripower & Sunny Highpower Inverters
 - STP15000/20000/25000TL-30
 - STP50-40, STP50-41
 - STP110-60 (20 devices per EDMM)
 - SHP100/150-20
- Controller: SMA Data Manager-M
- Feedback: Janitza UMG 604

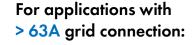
Third Party

- Ethernet router
- Ethernet Cables

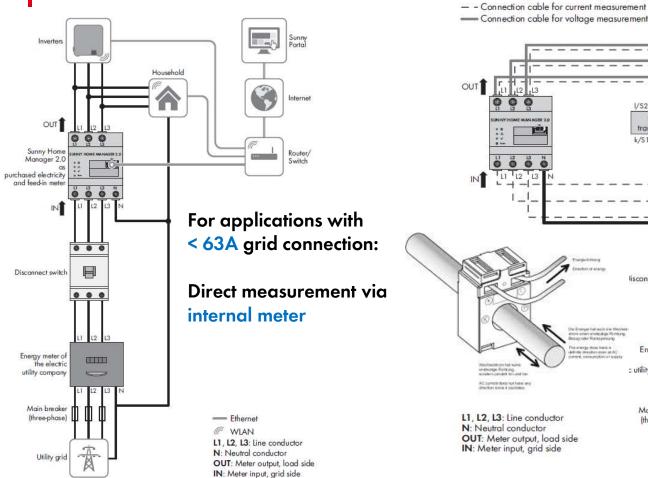
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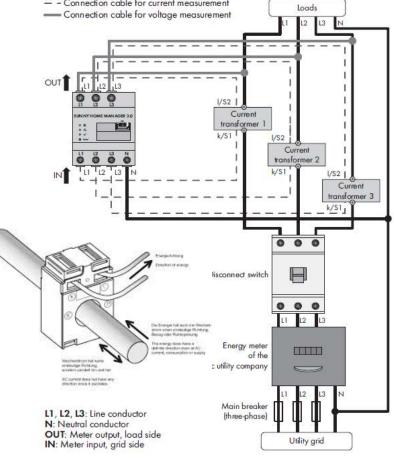
Sunny Home Manager 2.0 and SMA Energy meter connection





→ "External current transformer"





Configuration in Data Manager M



