

A photograph of the Deye Technology Group Co., Ltd. building. The building is a modern, multi-story structure with a large glass facade and a prominent entrance. The name "DEYE TECHNOLOGY GROUP CO., LTD." is visible on the building's facade. The sky is clear blue, and there are some trees and flags in the foreground.

NINGBO DEYE INVERTER TECHNOLOGY CO., LTD.

World-leading Energy Storage System Provider !

website : <https://www.deyeinverter.com/>

2022

Company profile/ Milestone



- ◆ Deye has a series of supporting industries such as electronic PCB manufacturing, molds, and injection molding machines.
- ◆ Deye is committed to provide whole residential solutions for hybrid inverters, grid-tie inverters and micro-inverters .
- ◆ Through scientific and technological innovation, we aim at creating a healthy and intelligent living environment for humankind.

Company profile/ Milestone

2022

- Released the new 6-20K and 25-50kW three-phase high-voltage hybrid inverter for 3 phase residential and C&I energy storage market.
- We provide whole PV and energy storage system solution ranging from 1kW to 100kW including hybrid inverter, micro inverter and PV inverter.

2021

- Deye succeeded in IPO, stock code 605117.
- No.2 PV inverter brand in Brazil
- No.1 yearly hybrid inverter shipment with over 70,000 pcs.

2020

- No.1 Chinese residential hybrid inverter manufacturer in USA
- No.1 hybrid inverter brand in South Africa market, the market share over 30%;

2019

- The Split Phase hybrid inverter is released, the first Chinese hybrid inverter that is truly suitable for the US market.

2007

- Ningbo Deye Inverter Technology Co., Ltd. was established.

Company profile/ Sales network



Company Profile/ Factory & Production



- ◆ The total workshop area covers 15,000 square meters, and the maximum annual inverter production capacity is around 20GW and battery production capacity is 1GWh.

Company Profile/ Factory & Production



SMT



Assemble-line



ATE-Test



Aging-Test-Room



Production-workshop

R&D and Innovation / R&D Strength



Inverter Simulation Userlab



EMC Lab

R&D and Innovation / R&D Strength



Inverter Reliability Laboratory



**IGBT Testing and HOT
Lab**

R&D and Innovation/R & D strength

- ◆ Thanks to advanced frequency droop control technology, Deye grid-connected inverters can be used in conjunction with diesel generators in areas without grid. At the same time, the system does not need a third-party EMS controller.
- ◆ With the unique "Smart load" and AC couple features, the Deye hybrid inverter can use the diesel generator port as the "Smart load" output port and "AC couple" connection port, which greatly improves the machine's intelligence and application scenarios.
- ◆ Deye hybrid inverters can be fitted in one system with up to the maximum of 16pcs in parallel, and the Max. number of parallel connections and stability of the system are in a leading position in the industry.
- ◆ Deye hybrid inverters have unique integrated peak-shaving function, helping customers reduce electrical cost and help DNO reduce grid peak power.

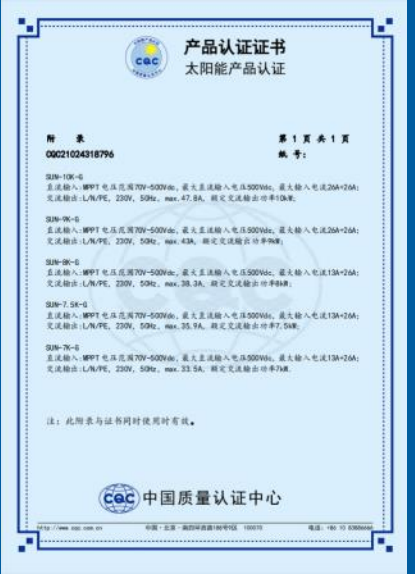
150+ R & D engineer

60% Over 10 years experiences

10% Annual revenue for R&D cost



R&D and Innovation/ Product certification



Inmetro

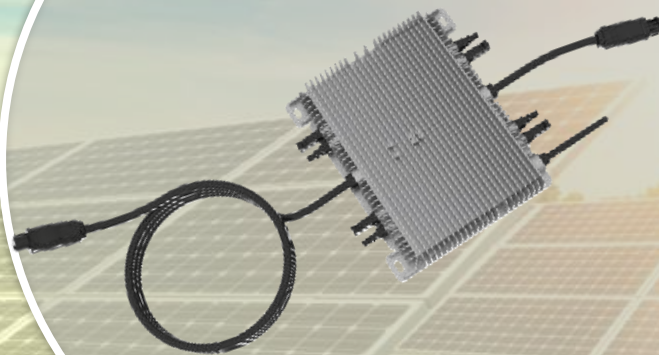


Company profile/ Core products



Grid-tie Inverter
1-110KW

Micro-inverter
300-2000W



Hybrid Inverter
3-50KW

Solutions/ Core Products

Hybrid Inverter

1 phase , 2 MPPT
SUN 3/6K-SG04



1 phase, 2MPPT
SUN 3.6/6K-SG03



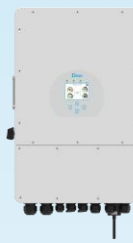
1 phase, 2MPPT
SUN 3.6/8K-SG05



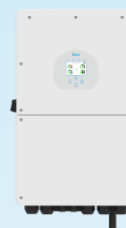
1 phase , 2 MPPT
SUN 5/8K-SG01



3Phase, 2 MPPT
SUN 5/12K-SG04



1Phase, 2 MPPT
SUN 12/16K-SG01



3Phase, 2 MPPT
SUN 6/20K-SG01HP3-EU

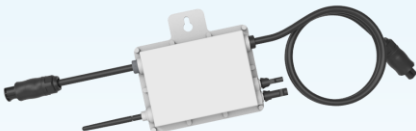


3Phase, 2 MPPT
SUN 20/50K-SG01HP3-EU

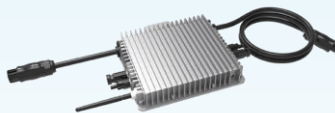


Microinverter

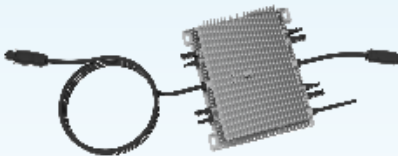
1 phase, 1MPPT
300/500W



1 phase, 2MPPT
600/1000W

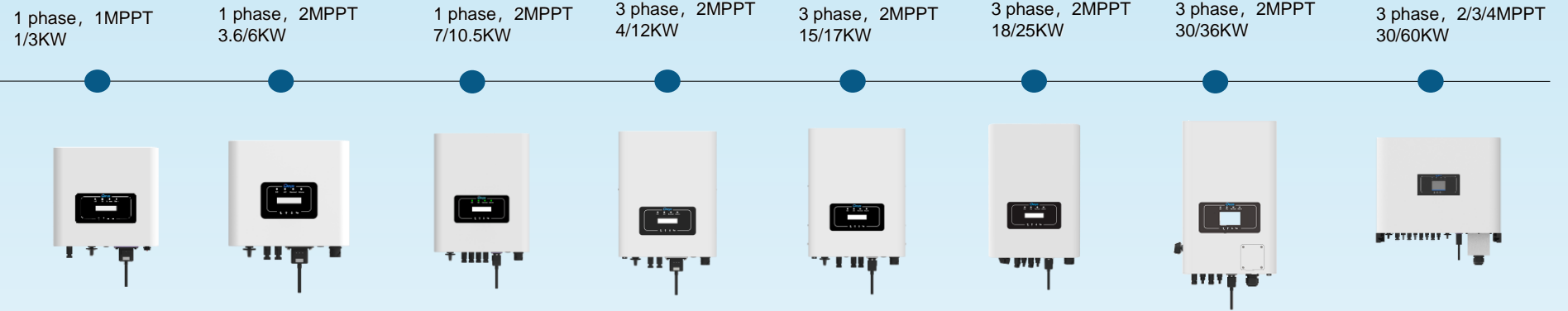


1 phase, 4MPPT
1300/2000W

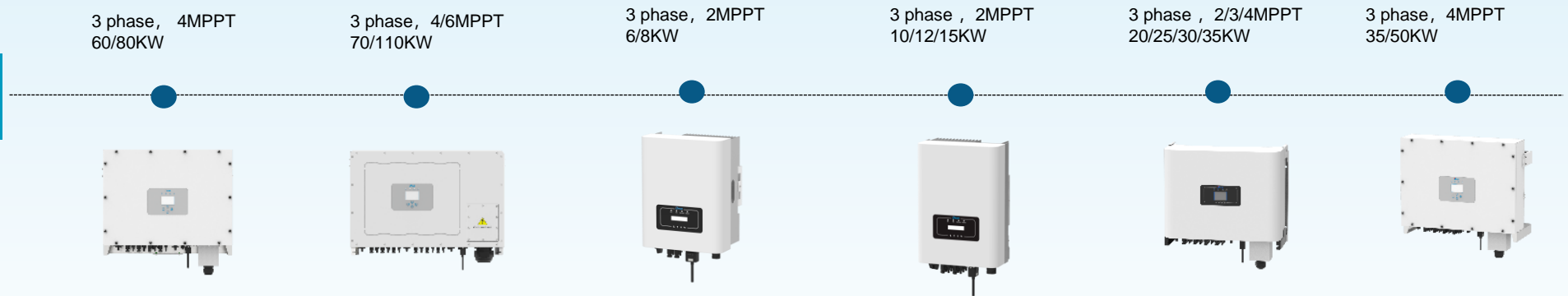


Solutions/ Core Products

On-grid inverter 230/400V



On-grid inverter 127/220V

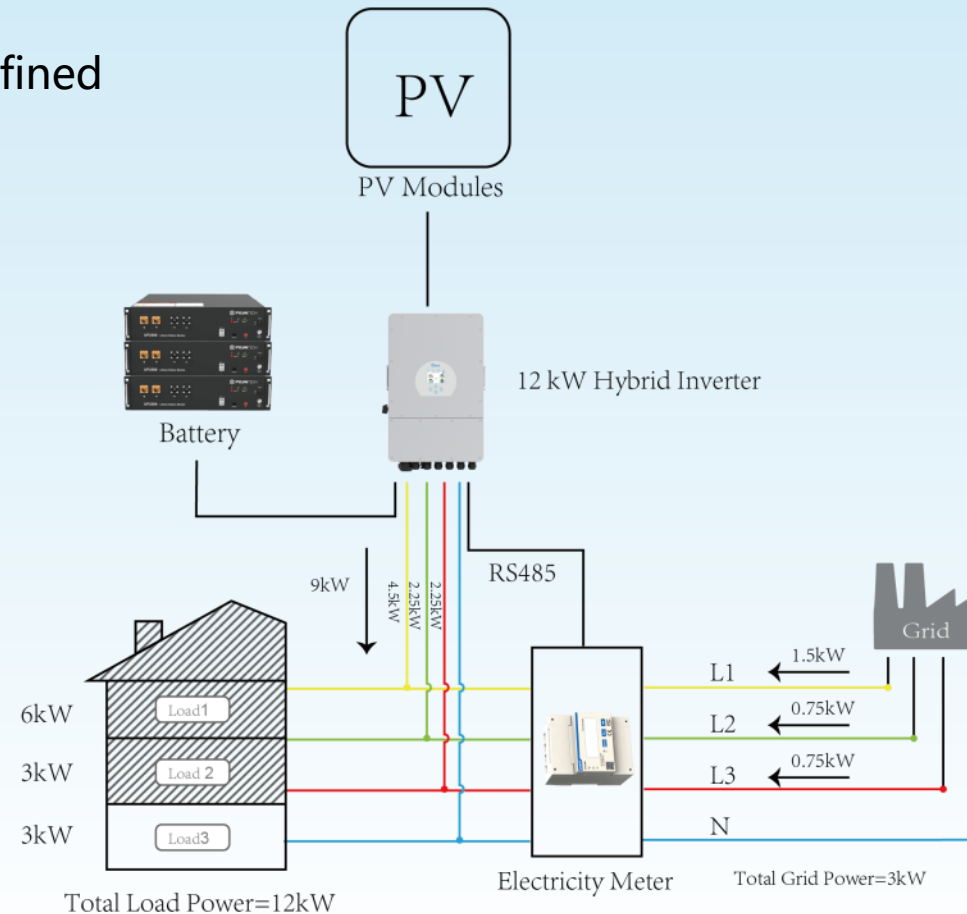


Hybrid Inverter / Core Technology Highlights

- Support parallel function up to 16pcs (on grid/off-grid status)
- Support multiple parallel batteries
- Support small scale C&I energy storage system

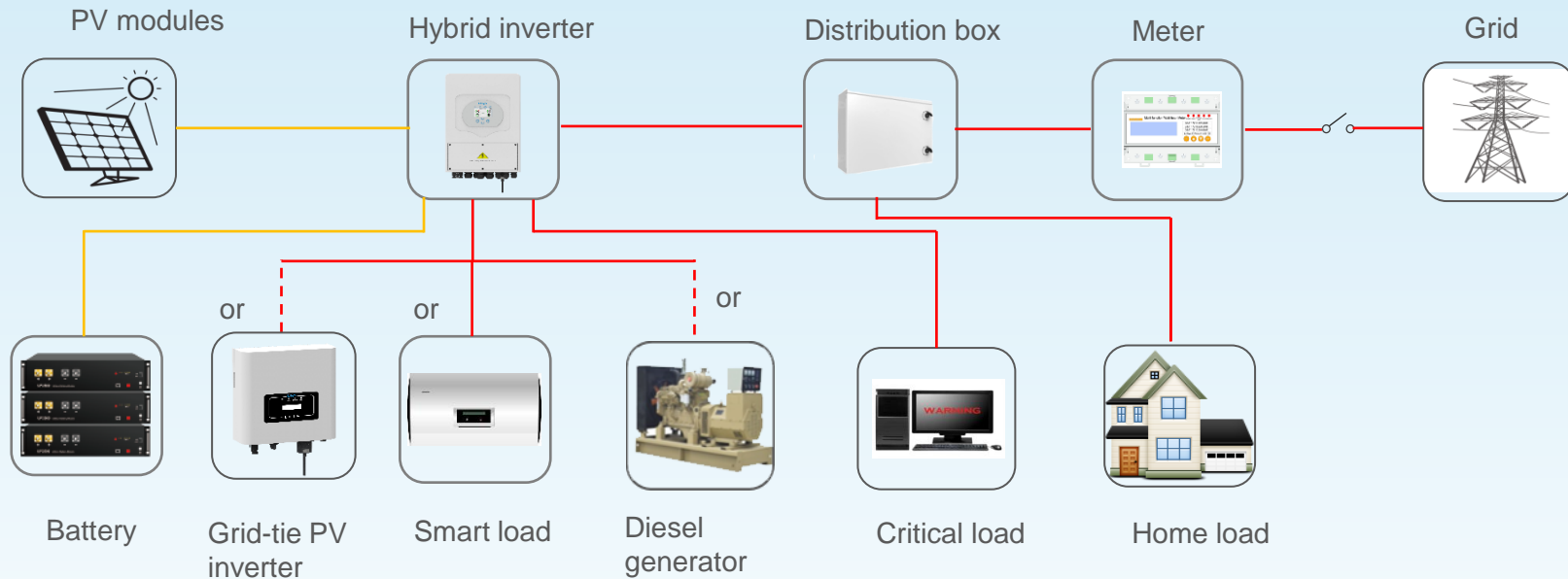
Hybrid Inverter / Core Technology Highlights

- ◆ 3P networking and parallel function
- ◆ Support 3P unbalanced output with max. each phase output power up to 50% rated power
- ◆ Peak shaving function
- ◆ 6 self-use periods can be defined



Hybrid Inverter / Core Technology Highlights

- ◆ Smart load/AC couple applications. Gen port can be expanded as Smart Load port or AC couple port if diesel generator is not connected.



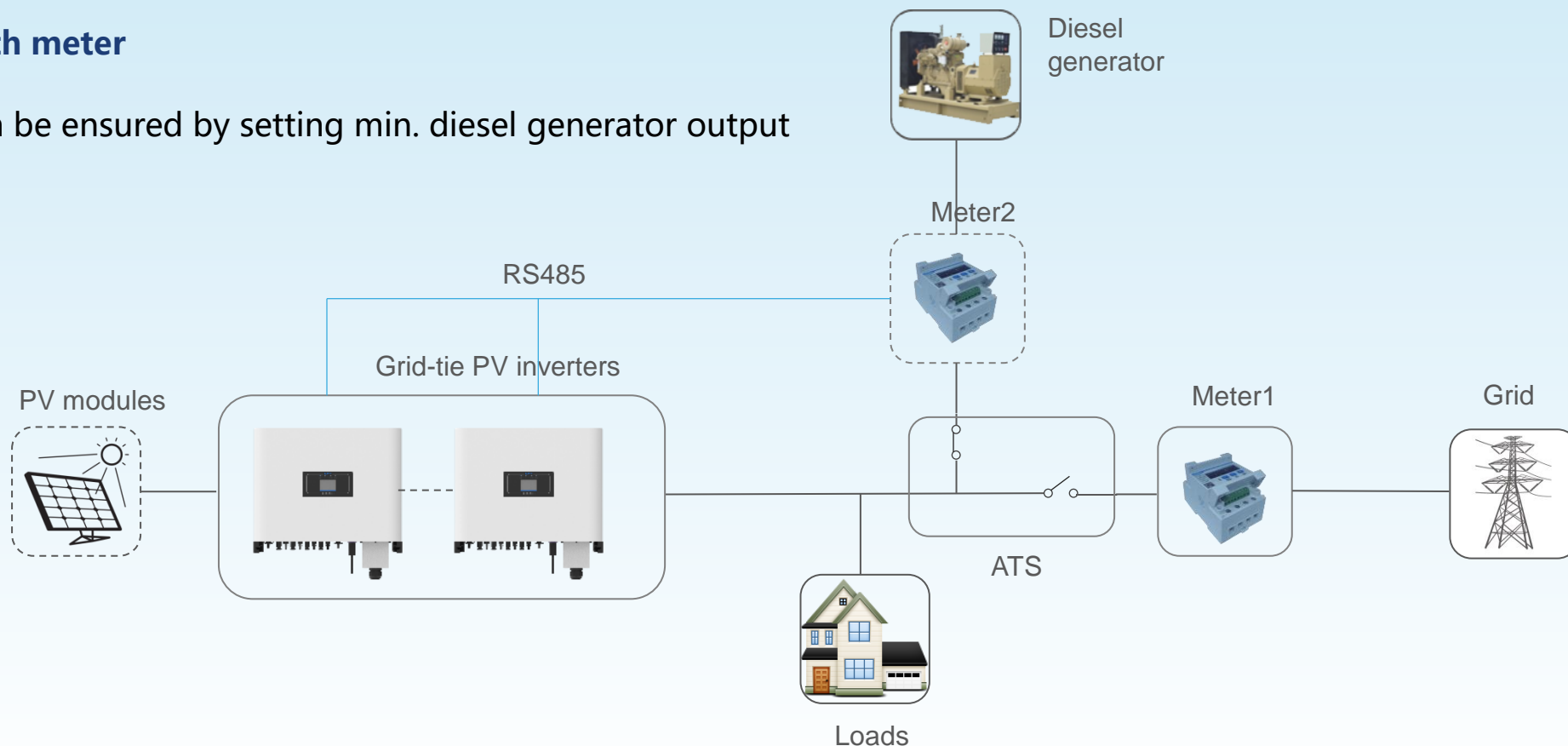
PV Inverter / Core Technology Highlights

1. Frequency droop control algorithm, VSG application

When grid is off, Deye PV inverter can work with diesel generator to supply power to loads. Meanwhile, parallel scenario is applied in such cases without external controller.

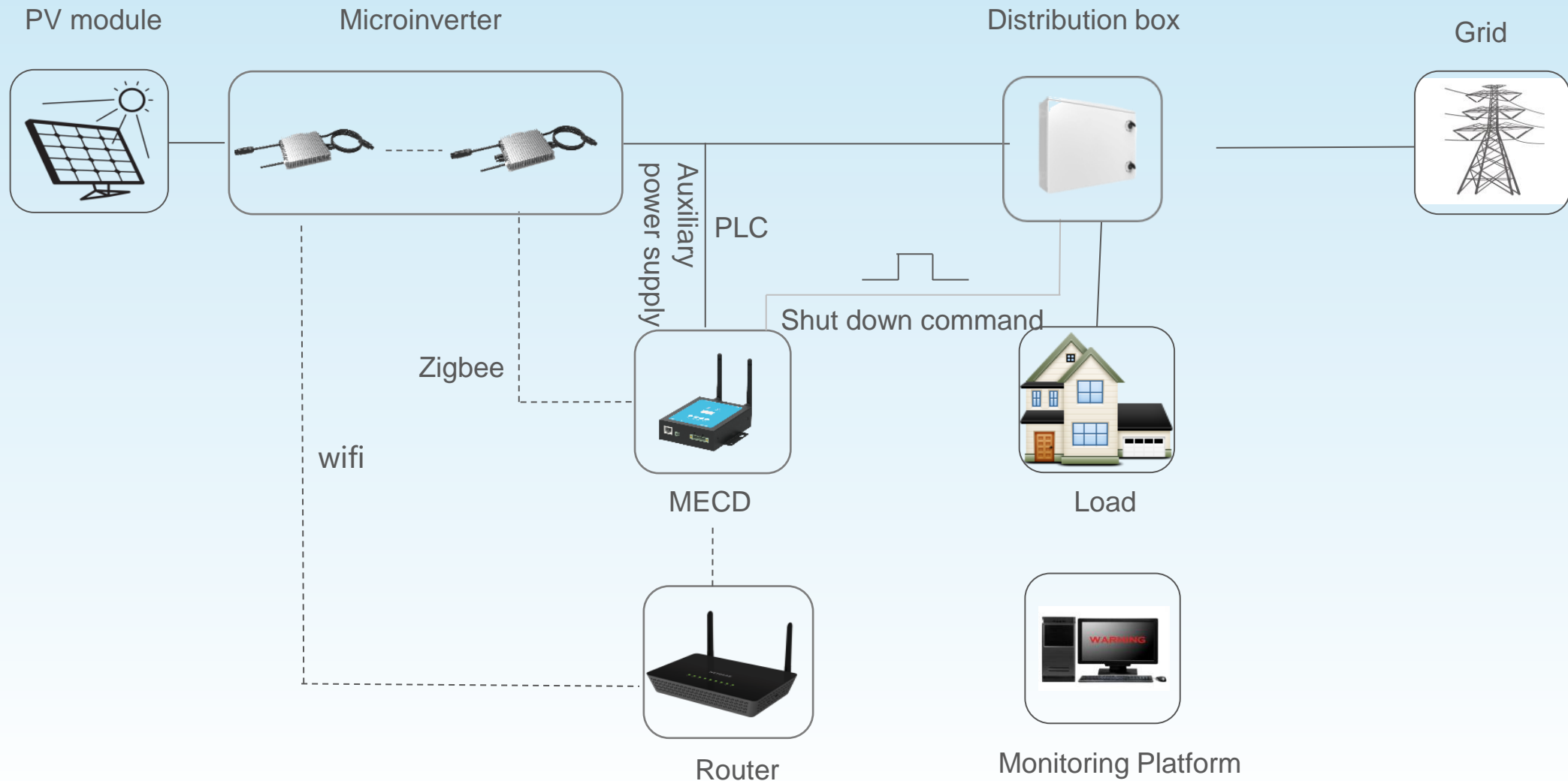
2. Applications with meter

System stability can be ensured by setting min. diesel generator output power with meter.

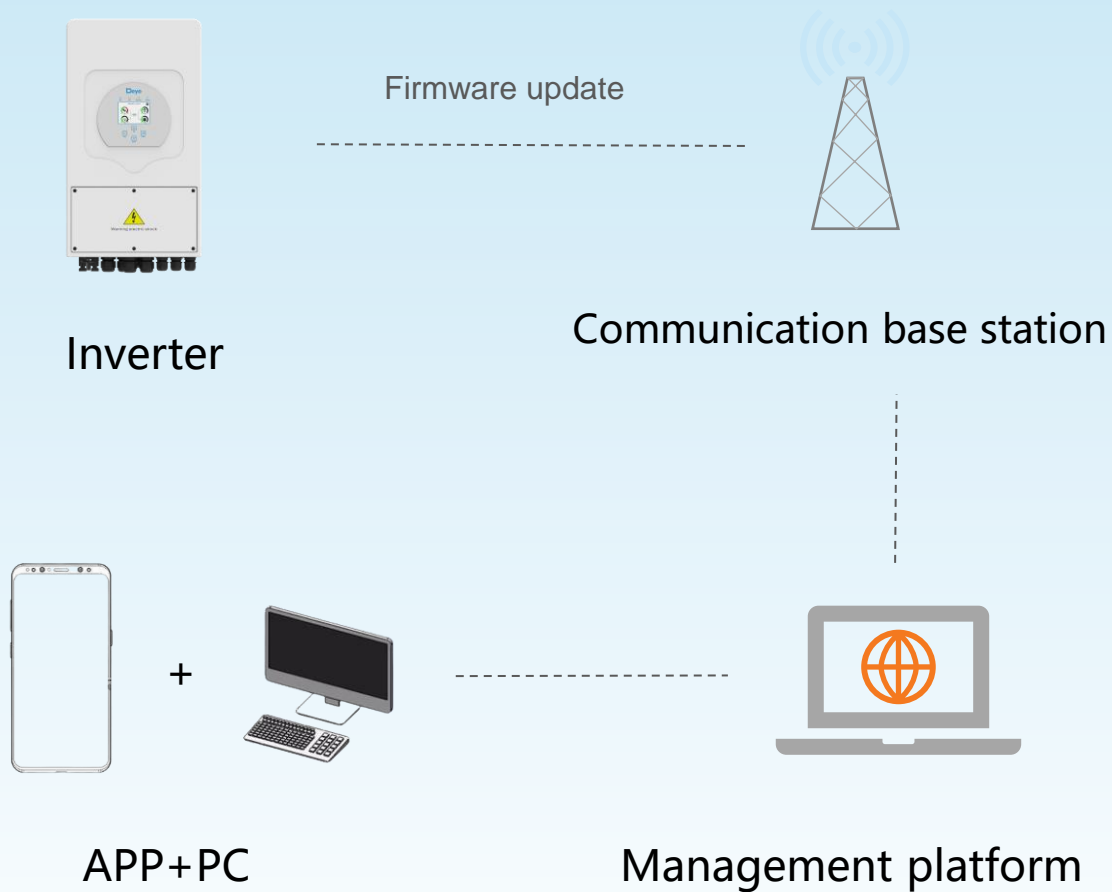


Solutions/Micro-inverter PV plant

◆ Application description: Suitable for the area where mains grid is stable, FIT, and high electricity rate.



■ Support set parameters and FW update remotely



Short time for FW update

- Remotely inverter parameter setting and software upgrade within 20 minutes



Save time, save cost

- Not need O&M engineer on site to check and operation

Project Case/PV Grid-tie Plant



80KW PV Grid-tie Plant, Brazil



200KW PV Grid-tie Plant, Vietnam



Project Case/Storage Power Plant



16KW Storage Power Plant, South Africa

Location: South Africa **Capacity:** 16KW
Model: SUN-8K-SG01LP1-EU



8KW Storage Power Plant, Philippines

Location: Philippines **Capacity:** 8KW
Model: SUN-8K-SG01LP1-EU



Project Case/PV Grid-tie Plant



10KW Storage Power Plant, Vietnam

Location:Vietnam **Capacity:**10KW
Model:SUN-5K-SG03LP1-EU



Project Case/PV Grid-tie Plant



24KW Storage Power Plant, Vietnam

Location:Vietnam **Capacity:**24KW
Model:SUN-12K-SG04LP3-EU





THANK YOU!