this **Webinar** is powered by Solinteg

7 December 2022

9:00 am - 10:00 am | GMT, London 10:00 am - 11:00 am | CET, Berlin 11:00 am - 12:00 pm | EET, Athens



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Editor

pv magazine

pv magazine Webinars

New entrants bring new perspectives: Hybrid inverter series for C&I applications



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Welcome!



Do you have any questions? ? 🙋

Send them in via the Q&A tab. We aim to answer as many as we can today!

You can also let us know of any tech problems there.

We are recording this webinar today.

We'll let you know by email where to find it and the slide deck, so you can re-watch it at your convenience.



Solinteg Introduction

www.solinteg.com



About **Solinteg**

Solinteg, a leading technology and innovative thinking enterprise, provides advanced and optimized energy storage solutions to intelligently integrate solar energy into the distributed grid.

Driven by cutting-edge technology and the MORE platform, Solinteg offers reliable products with outstanding performance, including PV inverters, batteries, smart terminals, monitoring devices and EMS services.

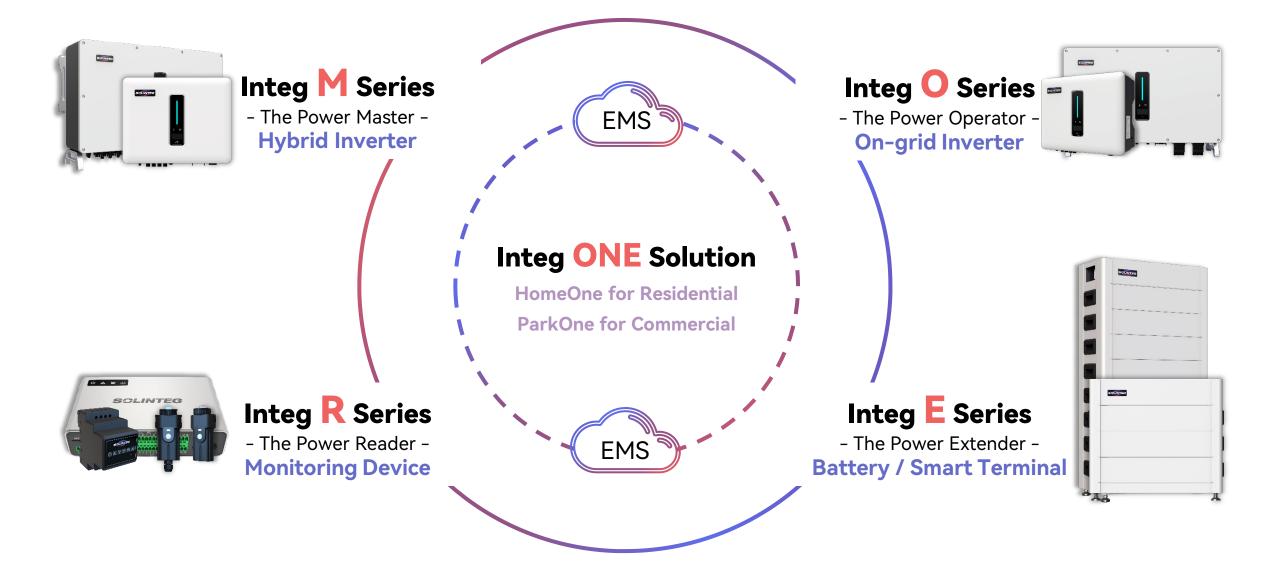
Solinteg has deployed global sales channels and customer service centers dedicated to delivering safe, intelligent, cost-effective and sustainable clean energy to residential, commercial and industrial users around the world.



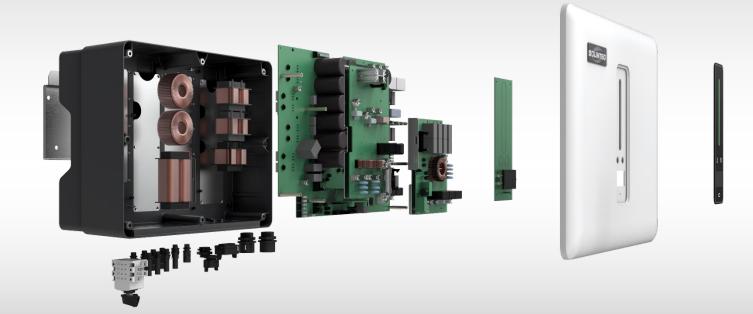
Strategic Investment for Global Sales & Service



MORE to ONE - Design for Intelligent Clean Energy



Solinteg MORE Platform with Advanced R&D Concept



Modular

- CBB (Common building block) design concept for hardware and structure
- Firmware integrated with modular function optimized by intelligent algorithm

Optional

- Easy for functional configuration with modular design of firmware and hardware
- Flexible and achievable for deep customization

Reliable

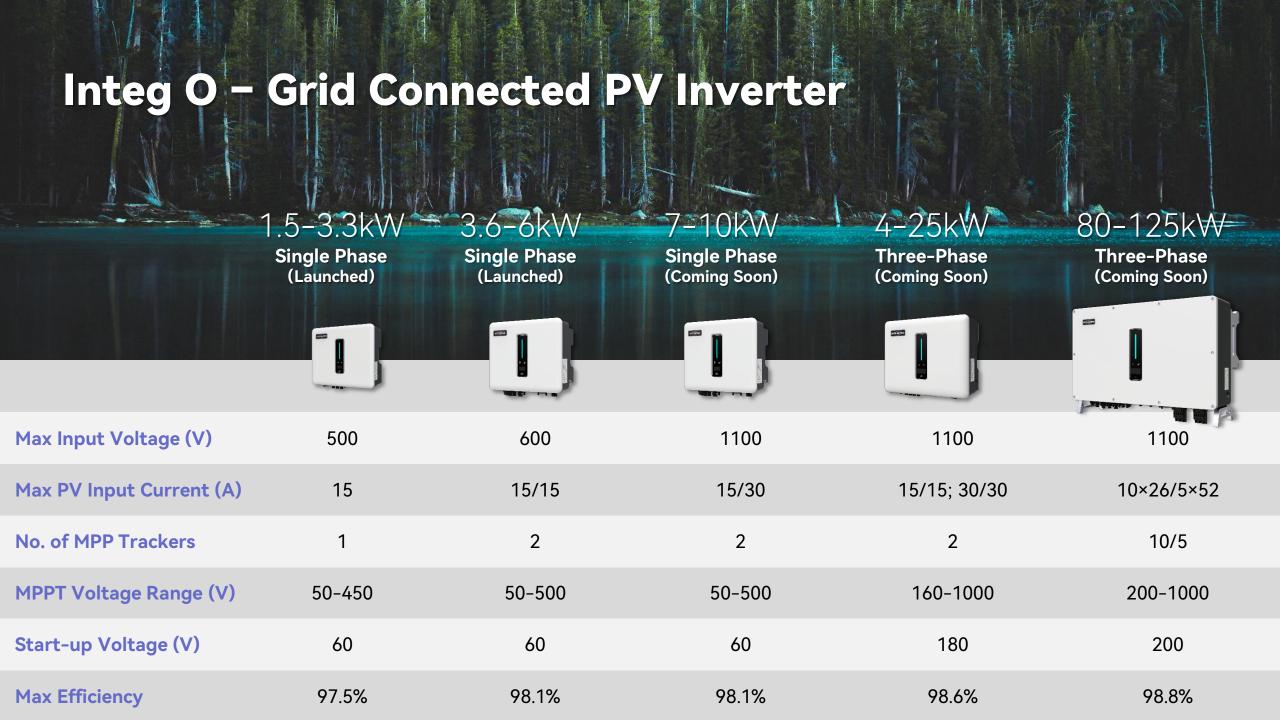
- Stable performance and high reliability for all series products
- Highly share design ideas, validation techniques and supply chain management

Extensible

- Simple for external expansion with standardized components
- Easy for performance adjustment due to ability to customize

Integ M — High Voltage Hybrid Inverter

SOLINTEG	SOLIMITEO	SILINTEO	SOUTHER DE LE CONTROL DE LE CO	
Product Overview	3-8 kW Single phase	4-12 kW Three-phase	10-20 kW Three-phase	25-50 kW Three-phase
Battery Voltage Range	85-465V	135-750V	135-750V	135-750V
Max. Efficiency	97.6%	98.2%	98.4%	98.8%
PV Input Current	15A	15A	30A	30A
Unbalanced Load	N/A	110%	110%	100%
Charge & Discharge	30/30A	25/25A	40/40A	100/100A
UPS Switching Time	< 10ms	< 10ms	< 10ms	< 20ms
Dimensions	534×418×210 mm	534×418×210 mm	534×418×210 mm	800×620×300 mm





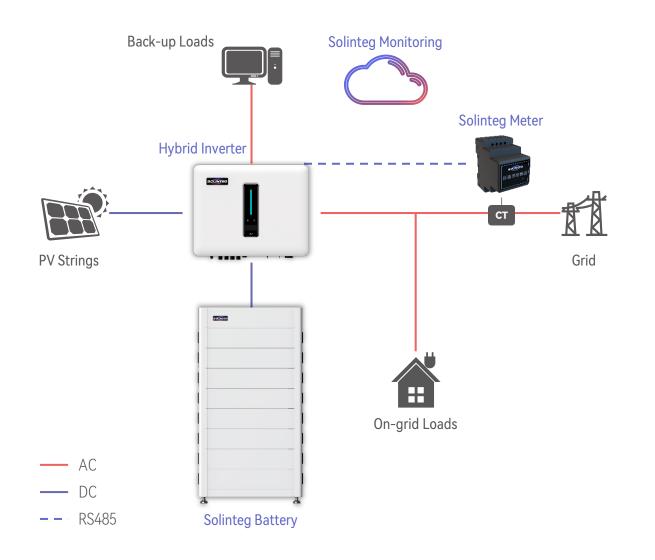








HomeOne - Intelligent Energy Solution for Home



Integration

Key components from Solinteg

Extensibility

Flexibly expand capacity of system

Efficiency

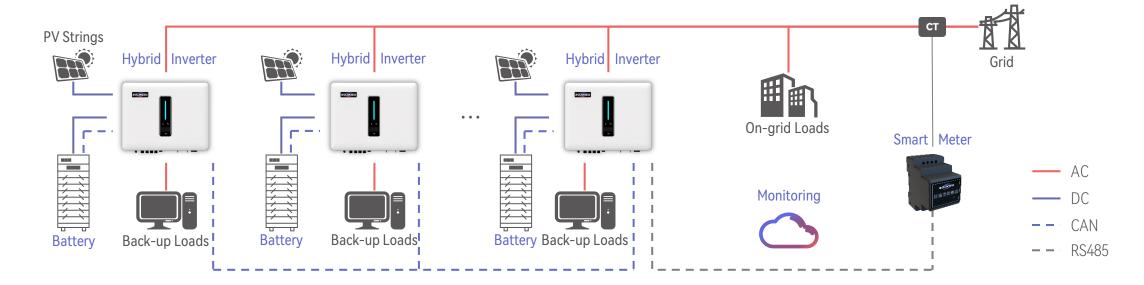
Efficient coordination for system operation

Intelligence

Harvest more power with intelligent EMS

System Components				
Solinteg Hybrid Inverter	Integ M 3-8kW Single Phase Integ M 4-20kW Three-Phase			
Solinteg Battery	Integ E Battery			
Solinteg Meter	Integ R Meter			
Solinteg Monitoring	Integ EMS			

ParkONE - Intelligent Energy Solution for C&I



System Components				
Solinteg Hybrid Inverter	Integ M 10-20kW Three-Phase Integ M 25-50kW Three-Phase			
Solinteg Battery	Integ E Battery			
Solinteg Meter	Integ R Meter			
Solinteg Monitoring	Integ EMS			

Integration

Key components from Solinteg

Extensibility

Flexibly expand capacity of system

Efficiency

Efficient coordination of operation

Intelligence

Harvest power with intelligent EMS

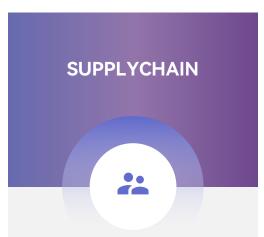
Solinteg Focus On Delivering Value



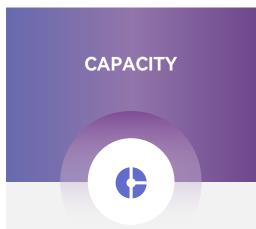
40% R&D Staff Approx.



Branches in Plan
Singapore/Germany/
USA/Australia



90% Strategic Partners from World-leading Level



10GW
Production Capacity
Ready in 2025



THANK YOU

www.solinteg.com



Three-phase C&I Hybrid Solution MHT 25-50KW

www.solinteg.com

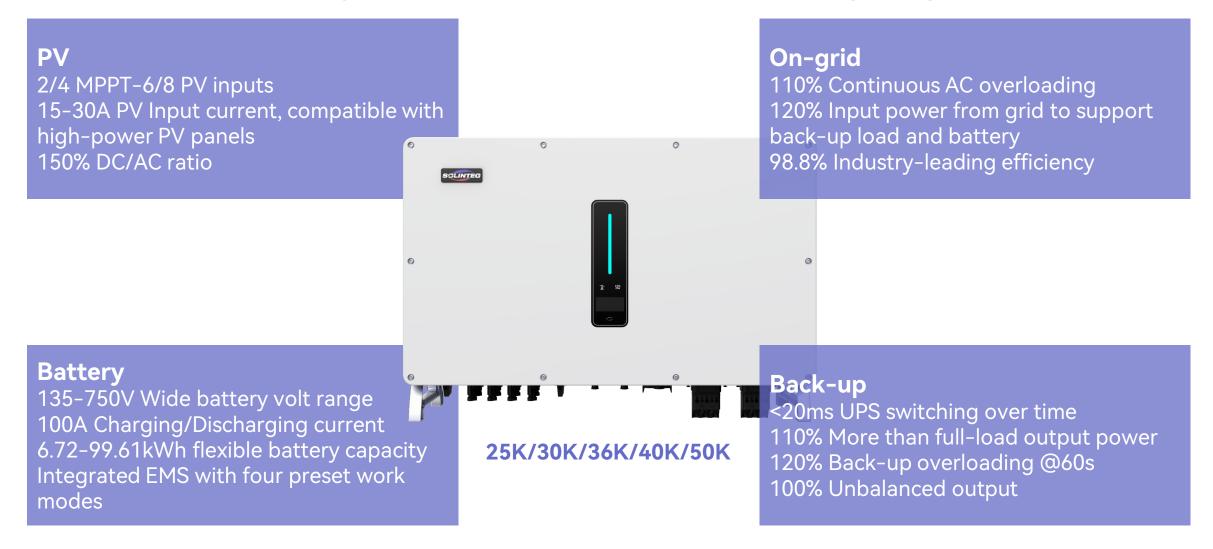
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INTEGRATE SOLAR INTELLIGENTLY



MHT25-50K Hybrid Comprehensive Highlights





MHT25-50K Hybrid Key Advantages

PLUG&PLAY

Plug-and-play connectors offer timesaving and convenient installation

APP/OLED

Two ways of configuration and data managing offers operation reliability & flexibility



Breathe Light

Inverter working status at a glance

IP65

For indoor and outdoor use

HIGH POWER DENSITY

Much smaller compared with other same power range inverters in the market

10UNITS

Extend the application from 50kW to 500kW PARALLEL CONNECTION

Compatibility

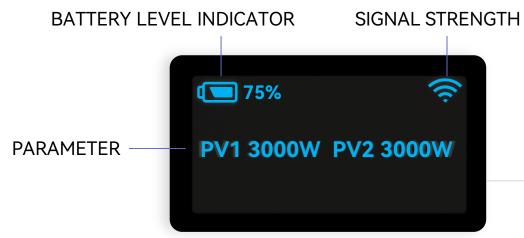
Pylontech / Dyness / Wattsonic AOBO / Soluna / Solinteg EBS

Dry Contact

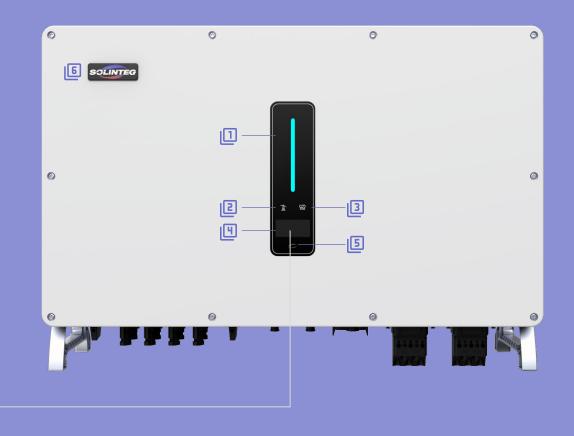
For heat pumps and other smart loads control

Easy to Read Data

- I-LIGHT INTELLIGENT POWER & ALARM INDICATOR
- GRID STATUS LED INDICATOR
- COMMUNICATION INDICATOR
- MULTI-FUNCTION OLED DISPLAY*
- **OPERATION BUTTON**
- **SOLINTEG LOGO**



Integ M MHT 25-50KW





I-Light-Easy to Identify Working Status



NO AC OUTPUT POWER

NORMAL

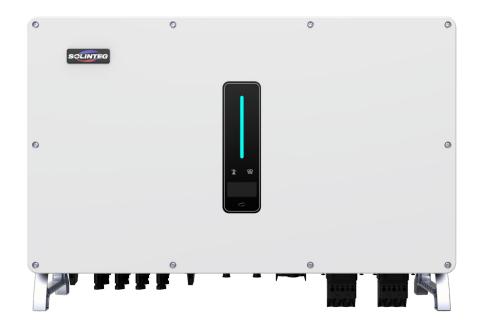
LOW BATTERY WARNING

FAULT OCCURS





Easy Commissioning









OLED/APP

Easy commissioning by Oled display and SolintegSet App, more flexible and reliable

General Settings

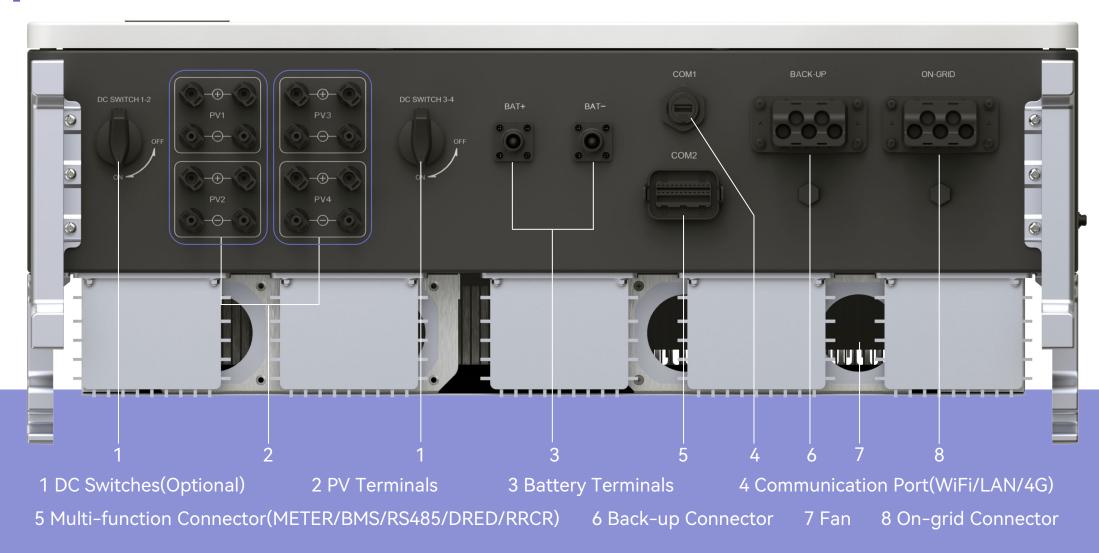
Support language, DHCP, time, IP, Modbus settings, etc.

Advanced Settings

Support safety code, battery brand, work mode, export limit, power factor, SOC protect, SOC value, unbalanced output, MPPT parallel settings, etc.



Spacious Room for Installation & Maintenance





Convenient and Cost-saving Installation

Easy to hang on the wall with only two persons, saving time and money on the installation



Others 50kW Hybrid

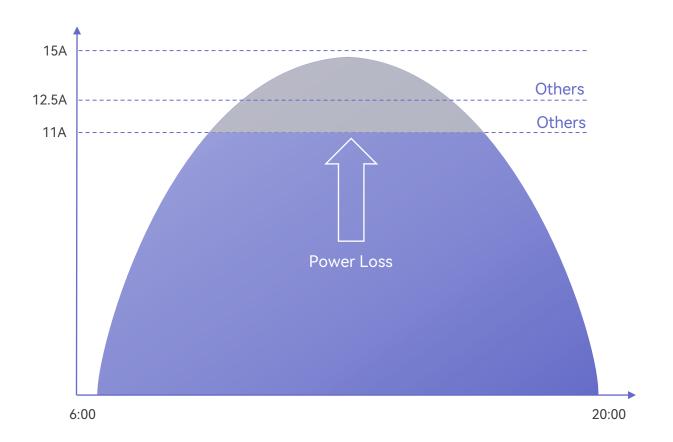
Need to use **forklift** to install the inverter





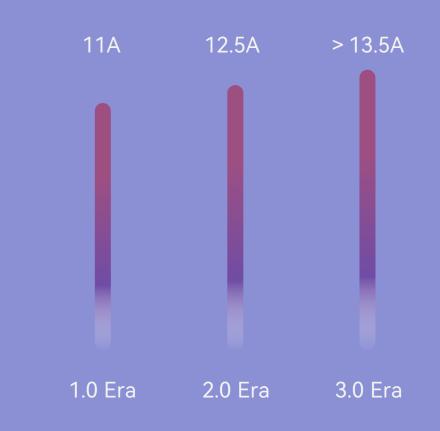


15A PV Input-No PV Power Loss



More Power Generation

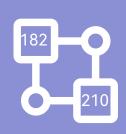
Compatible with high-power PV panels





30A MPPT Input-Compatible with 210mm PV Panels

MHT25-50K Super High Current(>15A) Solution One



Compatible With 182/210mm PV Panels

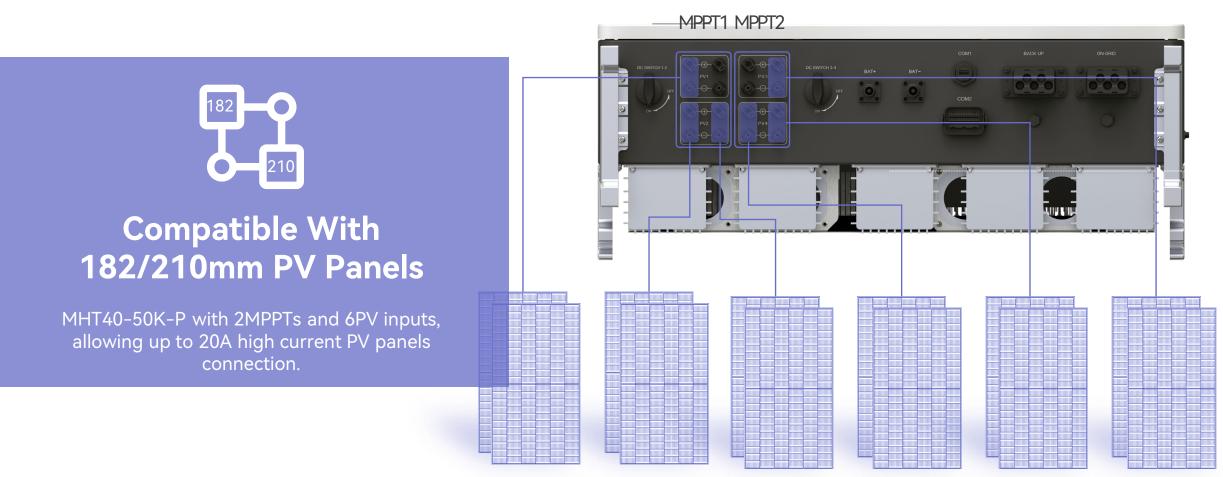
MHT25-50K can connect high current (>15A) panels by using one of two PV strings in a MPPT without any PV power loss





60A MPPT Input-For High Current PV Overloading

MHT40-50K-P Super High Current Solution Two



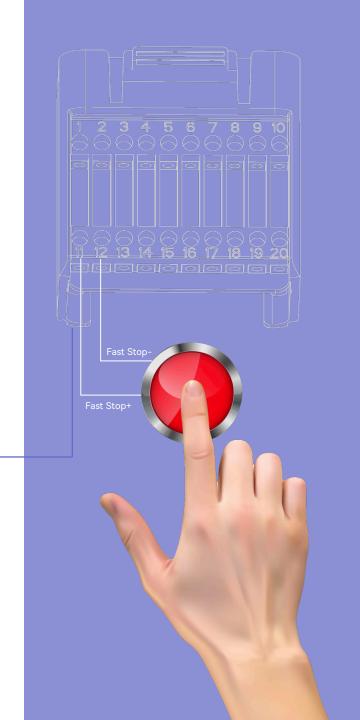


Fast Stop-Increase System Safety

Increase System Safety

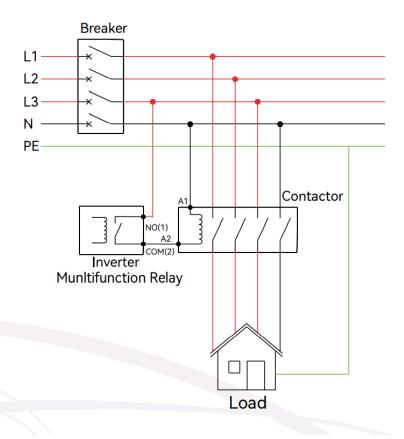
Solinteg hybrid inverter comes to stand with a fast stop function that can stop the inverter with just a press when an accident occurs and prevent system damage from being enlarged.



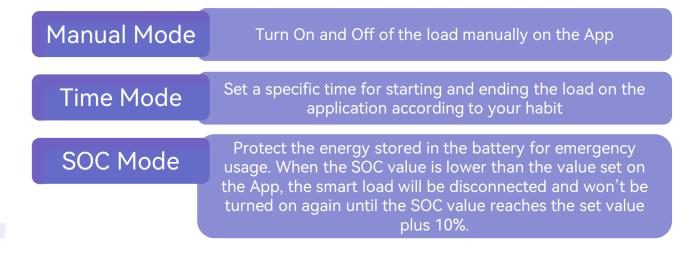




Dry Contact-For Heat Pump or Water Heater Control

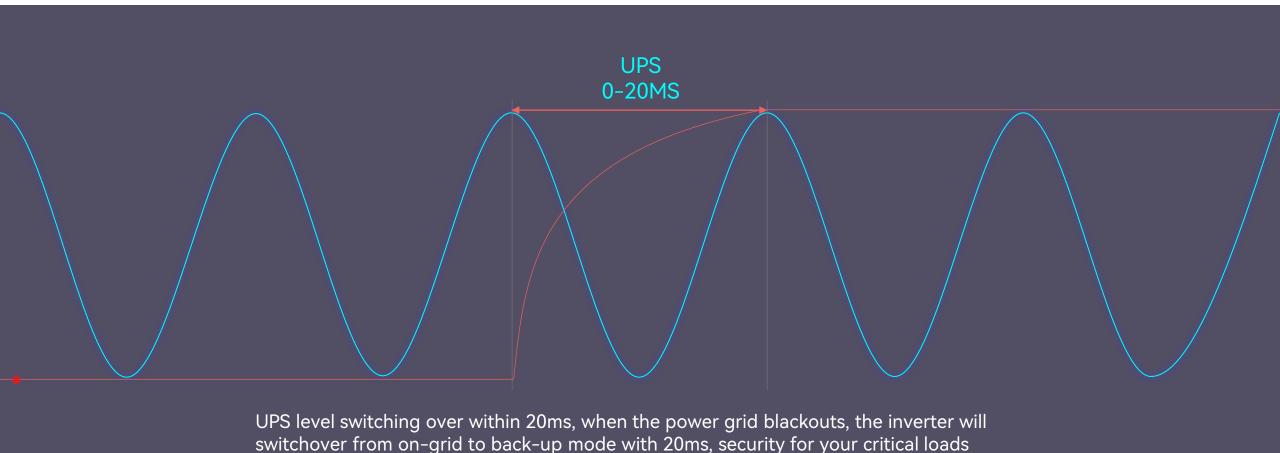


Solinteg MHT hybrid inverter integrated with dry contact function which helps to realize the on and off control of the smart load like the heat pump or water heater. In addition to connecting a smart load through a contractor purchased from the market to the dry contact on the inverter, you just need to set the work mode on the application.



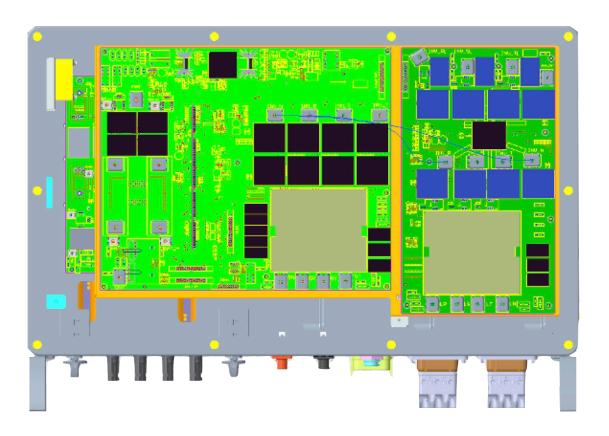


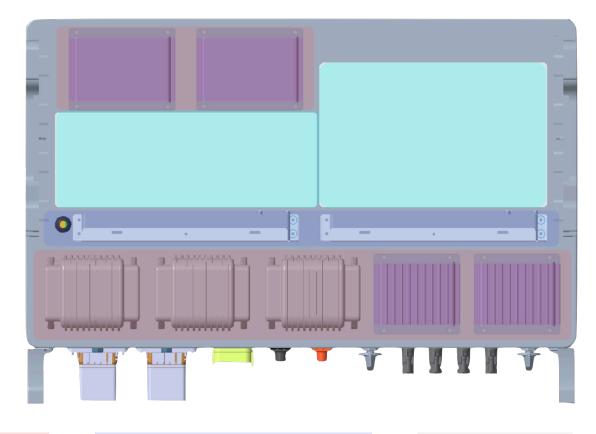
Energy Security <20ms UPS Switching Time





Excellent Heat Dissipation-Reliable Performance





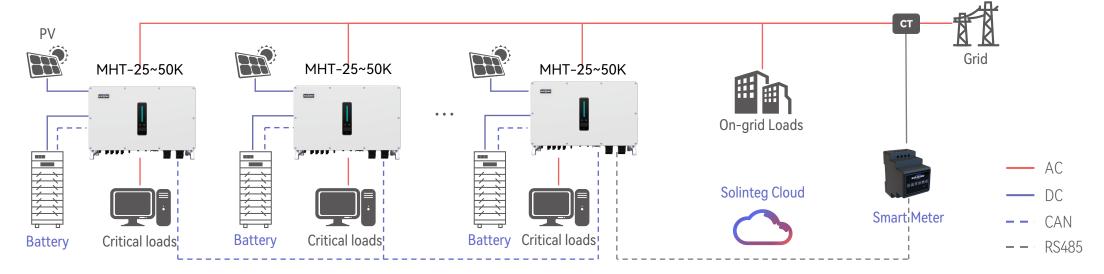
The core components such as the boost power device and IGBT use high thermal conductivity Al heat sink for quick heat dissipation

Each inductor has its inductor box with thermal conductive silicone grease filled for good heat dissipation Six intelligent fans ensure the fast heat dissipation and equalize the inverter chamber temperature

Shorter heat dissipation duct accelerates heat dissipation



Up To 10 Units On-grid Parallel Connection



Meet Various Applications
Commercial To Industrial

Solinteg hybrid inverter offers up to 10 units of paralleling connection with master-slave controlling technology, which can expand a three-phase hybrid system from 25kW to 500kW with a wide battery capacity from 6.72kWh to 966.1kWh *, suitable for commercial and small industrial projects.

Up to 500kW

* Calculated on Pylontech PowerCube battery



Great Combination for Commercial Storage

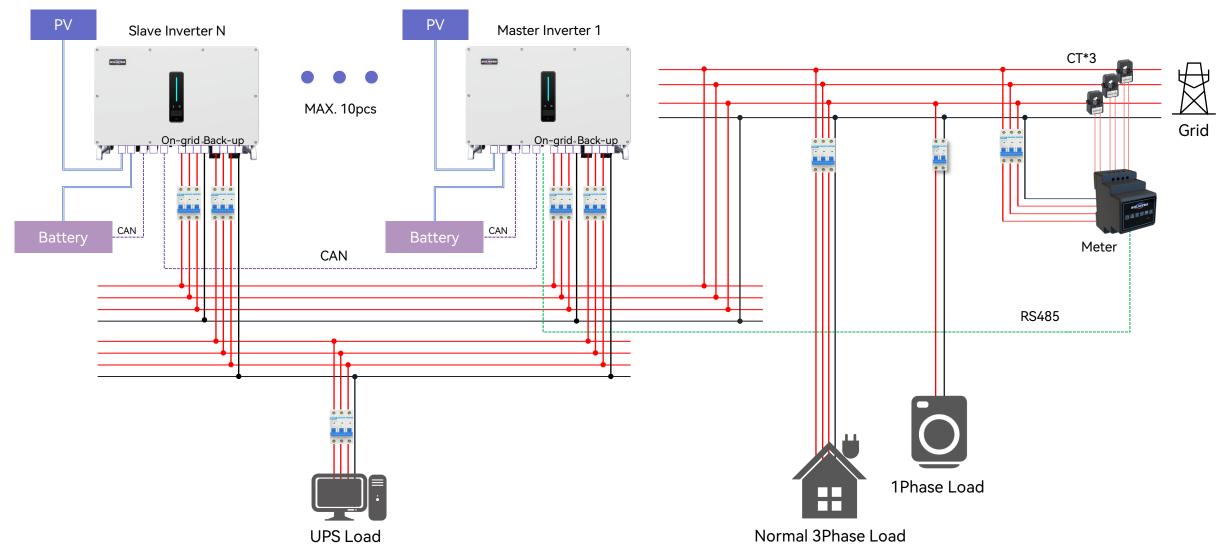


A wide battery configuration range from 6.72 -96.61kWh

Series	Capacity/Pack	Compatible Battery Packs	Compatible Battery Capacity
Powercube H1 (Residential)	2.4kWh	5-13pcs	12-31.2kWh
Powercube H2 (Residential)	3.55kWh	5-13pcs	17.76-46.17kWh
Powercube X1 (Commercial)	1.68kWh	4-10pcs	6.72-16.8kWh
Powercube X2 (Commercial)	2.49kWh	4-10pcs	9.96-24.9kWh
Powercube-M1 (Commercial)	4.74kWh	5-20pcs	23.68-94.72kWh
Powercube-M2 (Commercial)	5.683kWh	5-17pcs	28.42-96.61kWh
Powercube-M3A (Commercial)	5.683kWh	5-17pcs	28.42-96.61kWh
Powercube-M3B (Commercial)	5.683kWh	5-17pcs	28.42-96.61kWh



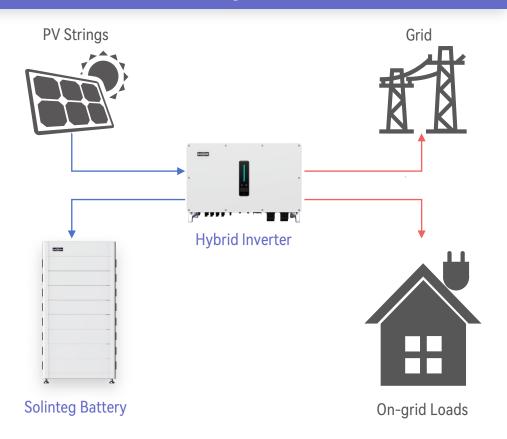
Off-grid Parallel Via Master Slave Controlling



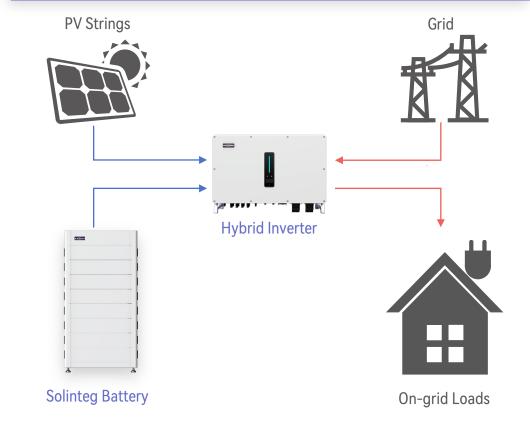


Work Modes-General Mode

In general mode, when the PV power is sufficient, power from the PV will firstly supply loads, then excess power charge battery, and any surplus power will be fed to the grid.



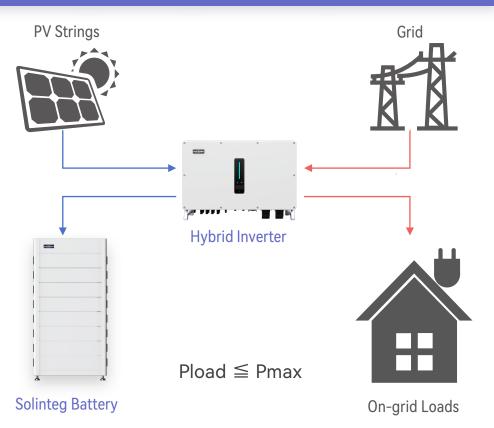
In general mode, when the PV power is insufficient to satisfy loads, the battery will discharge power to fill the power gap, and the grid will join in if it's still not enough.



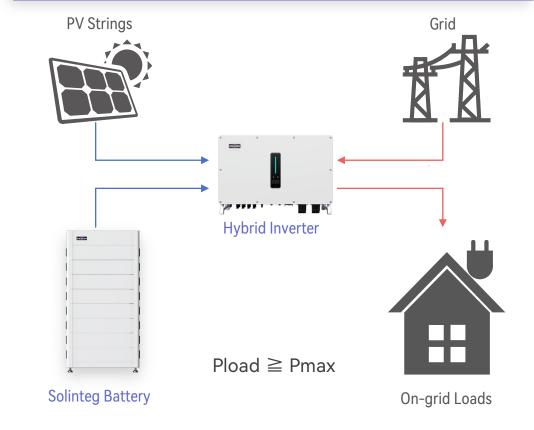


Work Modes-Peak Load Shifting

When the Pload ≤ Pmax(Power contracted with the grid), PV power will charge battery first and the load is supplied by the grid; when the battery is full, PV will supply the load together with grid while battery doesn't.



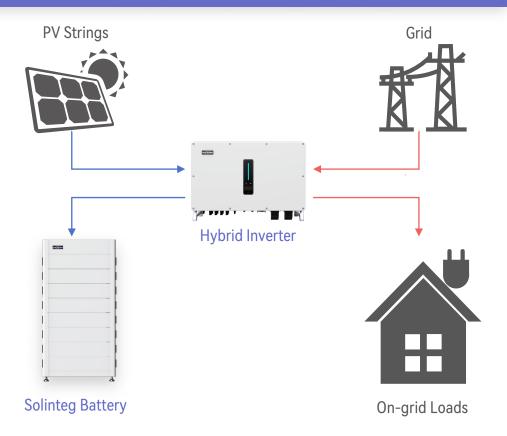
When the Pload ≥ Pmax(Power contracted with the grid), the inverter will take power from PV, battery and grid to offset the gap power between Pmax and Pload.



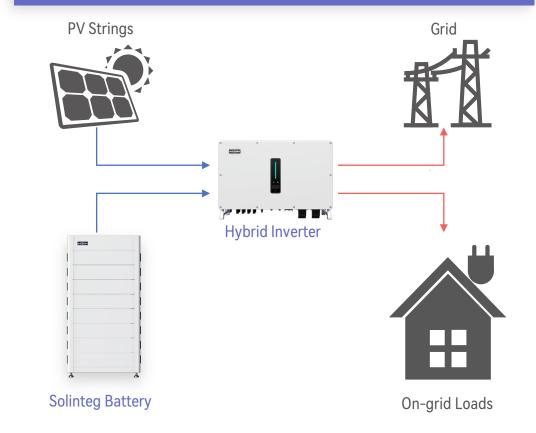


Work Modes-Economic Mode

This mode usually uses in the places where has peak and valley electricity prices to help customers optimize their energy cost. Customer can charge power from grid or PV in valley hours by setting on the App.



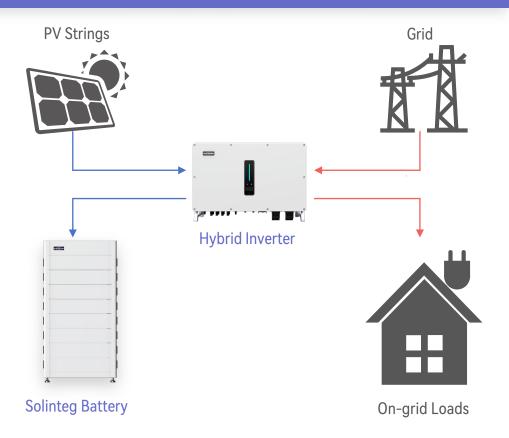
Customer can also discharge power in peak hours by setting on the App, and in this case, battery will discharge power to supply loads or feed to grid.



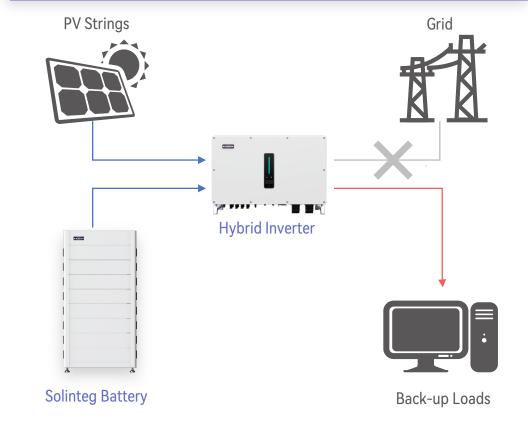


Work Modes-UPS Mode

In this working mode, power from PV will firstly charge the battery until it's full, and loads will be supplied by the grid during charging period. Battery will not discharge power as long as grid is connected.



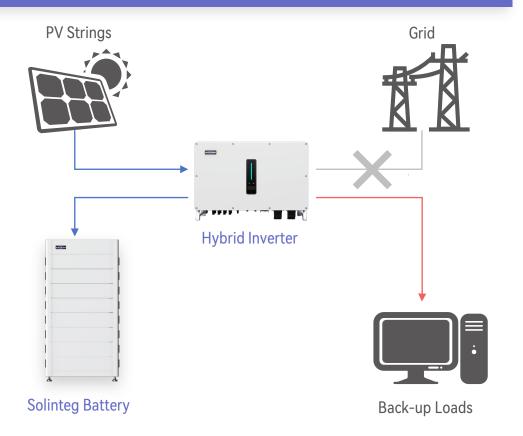
When the grid fails, and PV power is insufficient to meet the loads' consumption, the battery will take part in discharging power to supply loads connected to the backup port.



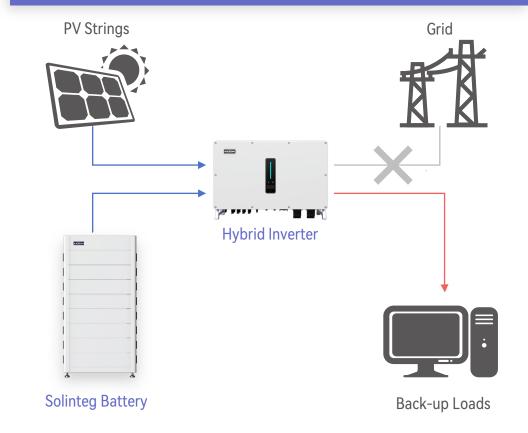


Work Modes-Off-grid Mode

In the purely off-grid mode, power from PV will supply the back-up loads first and then charge the battery if there's surplus power.



When the power from PV isn't enough, the battery will discharge to supply back-up loads together with PV.







THANK YOU

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Linkedin: Solinteg



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New entrants bring new perspectives: Hybrid inverter series for C&I applications Q&A



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Head of Solinteg Academy
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Jaroslav Kocourek
Vice President - Eastern Europe
Solinteg



The latest news | print & online



Bslbatt unveils 90-mm-thick battery for residential solar

by Emiliano Bellini



Mitsubishi unveils air source heat pump

by Beatriz Santos



Mostread online!



Coming up next...

Thursday, 8 December 2022

8:00 AM – 9:00 AM PST, LOS ANGELES 5:00 PM - 6:00 PM CET, BERLIN Monday, 12 December 2022

2:00 PM- 3:00 PM AWST, PERTH 7:00 AM – 8:00 AM CET, BERLIN Many more to come!

How to protect BESS to increase reliability and maximize return on investments Understanding Australia's tantalizing battery market

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Marija Maisch

Editor

pv magazine

Thank you for joining today!