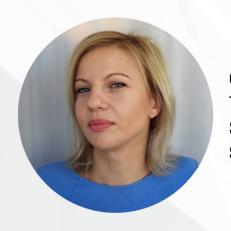




Webinar

8th November 2022

# Solis introduces new Sixth Ceneration 3 phase hybrid inverter



Carmen Dumitrescu
Training & Pre-Sales
Support - Europe
Solis



Travis Snyder
Product Manager –
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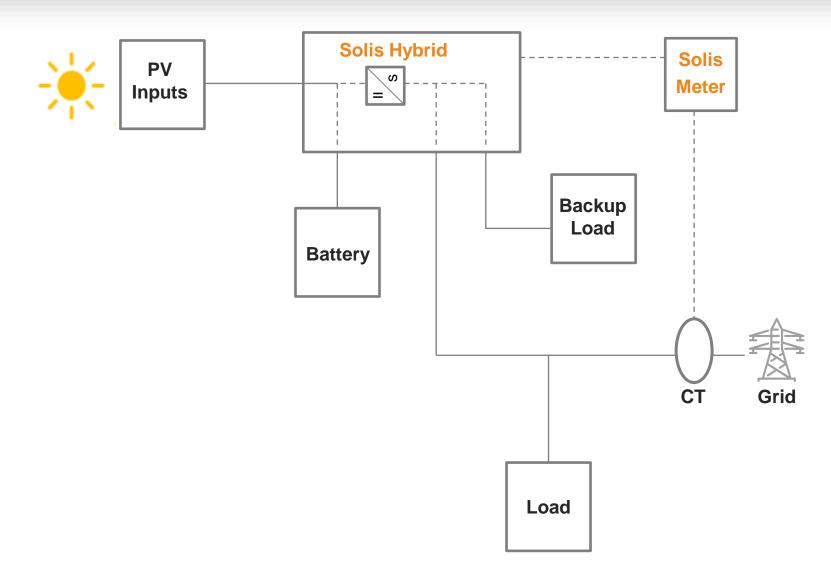


Moderated by
Andy Colthorpe
Editor
Solar Media /
Energy-Storage.news



# **Hybrid Inverter**







# The Here and Now









#### **Single Phase Hybrids**

Maximum voltage input 600V 3kW – 6kW

2 MPPT

#### **Three Phase Hybrid**

Max input current 13A
Maximum voltage input 1000V
3kW – 10kW
2 MPPT

#### **AC Coupled Retro Fit**

AC coupled - 13A output
Maximum voltage input 600V
3kW

# The Future... Sixth Generation Solis Hybrid Inverters





**Residential and Commercial S6 Three Phase Hybrid** 







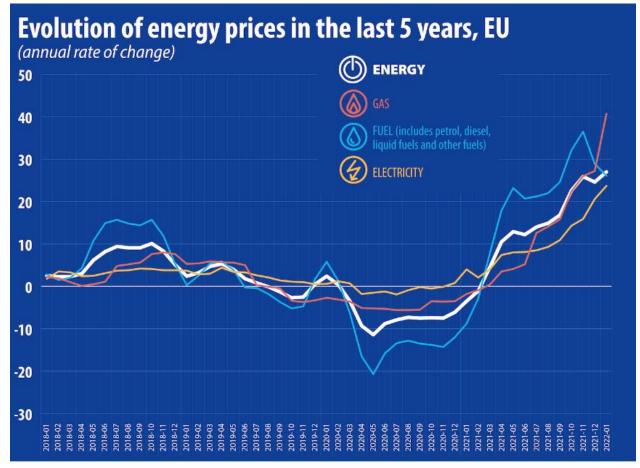
## **Energy Storage – For Homeowners AND Businesses**



#### **Key Drivers of Solar + Battery Storage**

- Growth of Electric Vehicles
- The desire to secure Energy future
  - Light Commercial
  - Residential
- Cost of energy prices globally





ec.europa.eu/eurostat

# **Design Flexibility**



4 MPPTs. Rooftop installations with multiple array orientations









# **Design Flexibility**



16 Amp Inputs x 4

Parameter:	
Material:	Tempered, High Transmittance, Low Iron
Module Area:	1.64 m²
Peak Power:	300 W
MPP Voltage:	32.6 V
MPP Current:	9.21 A
Allowed Voltage:	1000 V
Efficiency:	18.33 %
Open Circuit Voltage:	40.1 V
Short Circuit Current:	9.72 A

	Parameter:		
	Material:	mono	
	Module Area:	2.5	m²
	Peak Power:	540	W
	MPP Voltage:	40.7	V
	MPP Current:	13.27	Α
	Allowed Voltage:	1500	V
	Efficiency:	20.94	%
	Open Circuit Voltage:	49.42	V
	Short Circuit Current:	13.85	Α







### **Battery Compatibility**































Useful tip: Always check the latest Battery compatibility list on the Solis website

https://www.ginlong.com/uploads/file/Compatible Battery List us.pdf







# Parallel connectivity – up to 100kW System Size



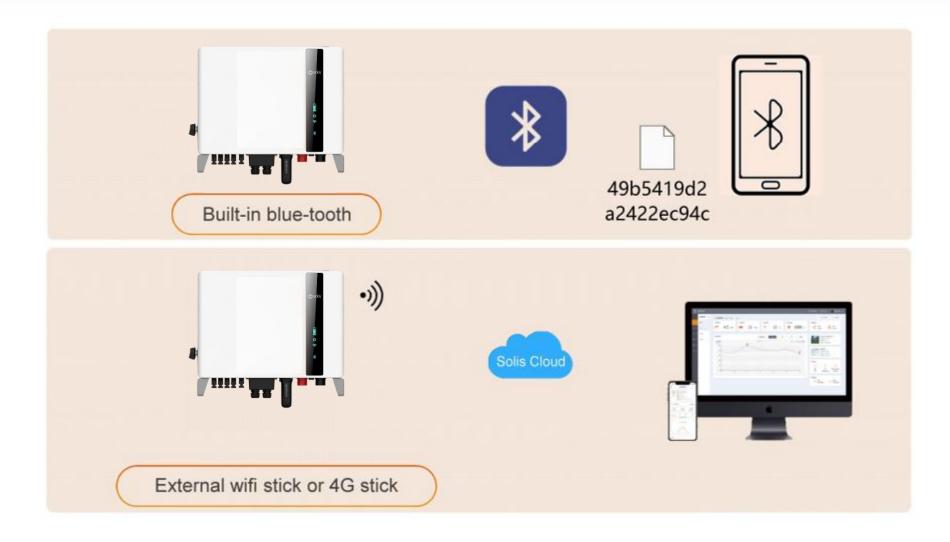






# **Built In Bluetooth**

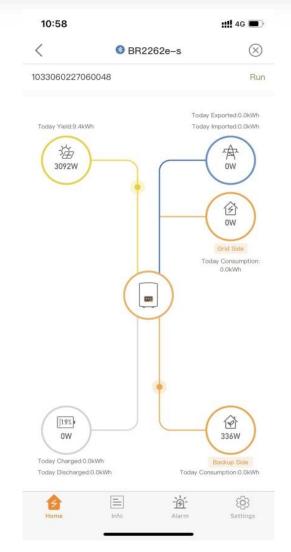






#### **Built In Bluetooth**







10:58 ::!! 4G \blacksquare BR2262e-s Inverter Battery Grid Load Discharged Charged Today 0.0kWh 0.0kWh 0kWh 0kWh Total Other Parameters (From BMS) Battery SOH Battery Model PYLON\_HV **BMS Status** Battery Voltage BMS Battery Current BMS 37.0A Inverter Charge Current Limit Inverter Discharge Current Limit Other Parameters (From inverter) 387.0V Battery Voltage Battery Current 0.0A OverVoltage Protection Value UnderVoltage Protection Value Battery Equalization Voltage Battery Charging Current Limit Battery Discharge Current Limit 37.0A (6) 窗 一百 Settings

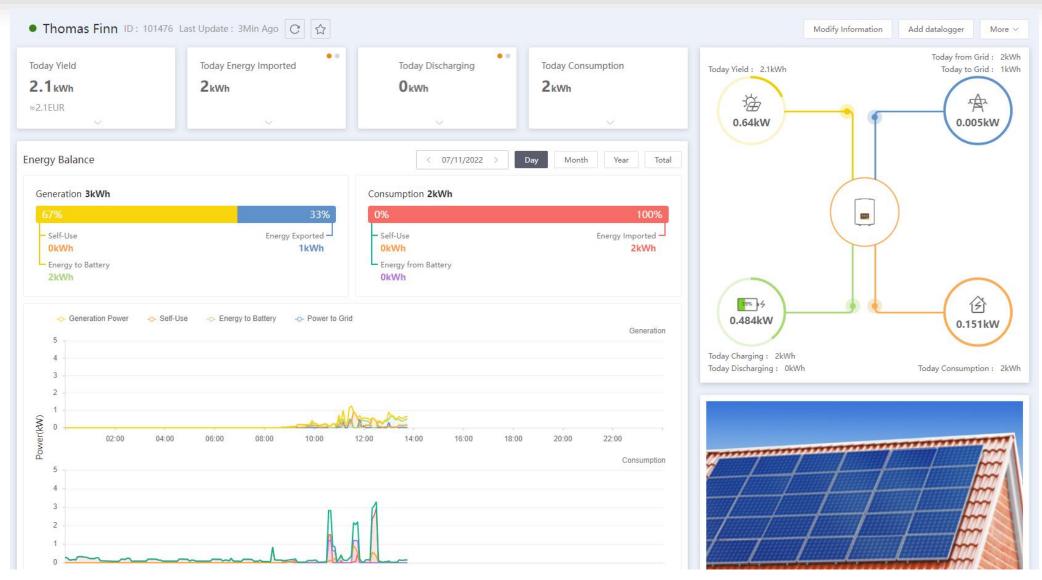
Main Page (Home)

Info(Battery)



#### Soliscloud









# **Solis Hybrid Inverters**





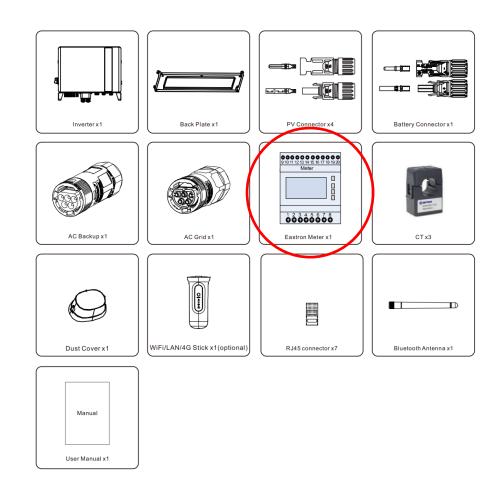




#### What's In The Box... Everything!



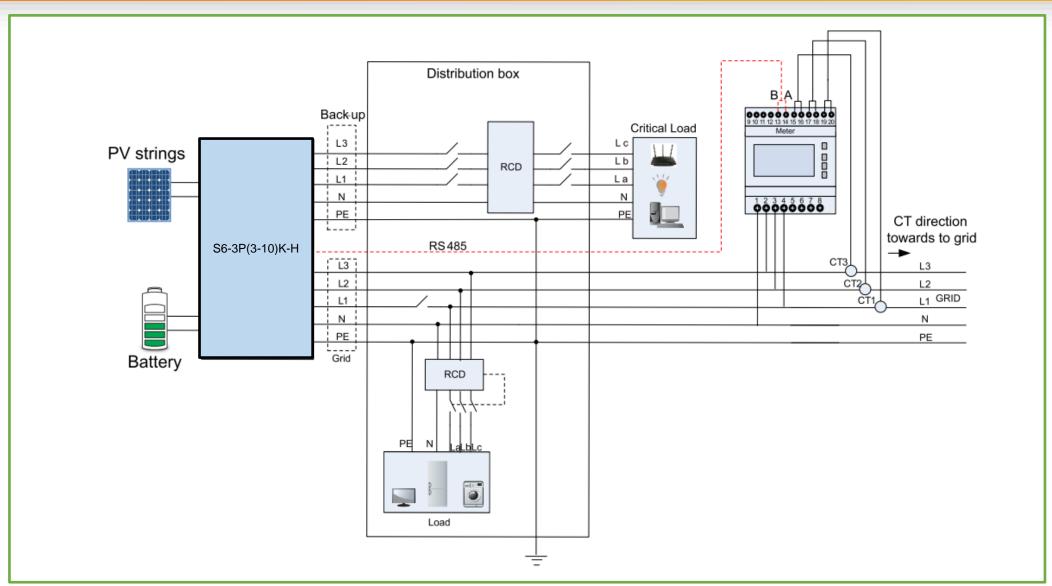






# **System Diagram**

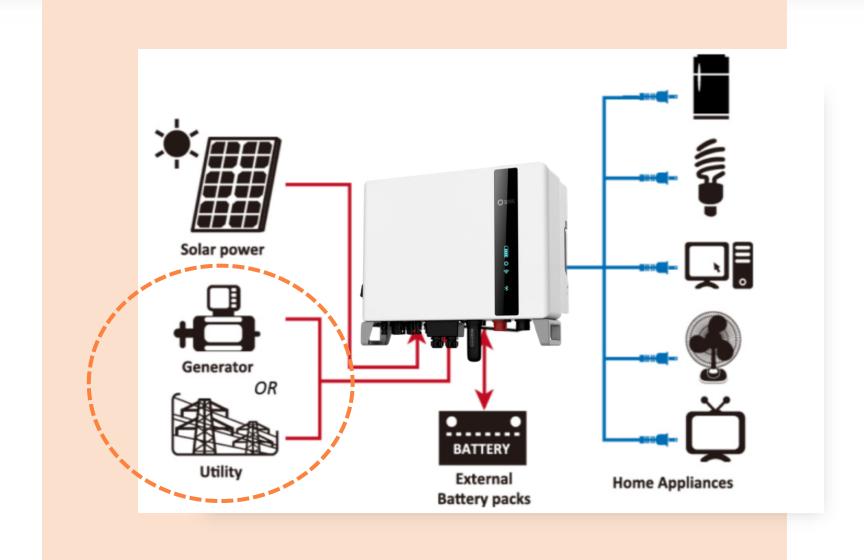






# Backup and self-use



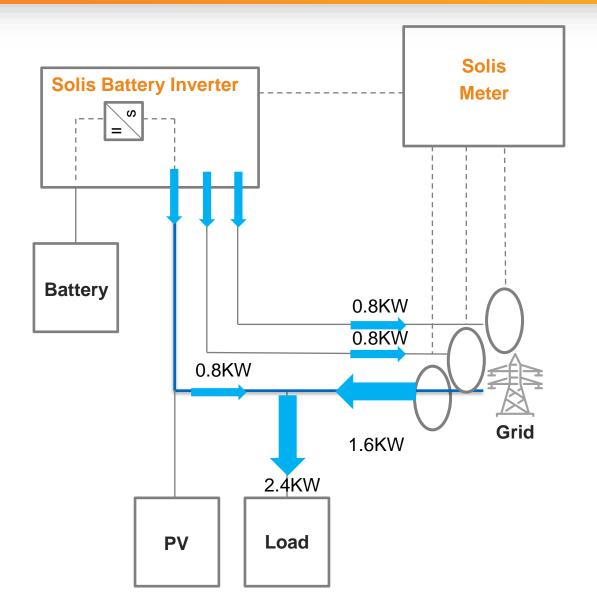






## **Unbalanced Loads**



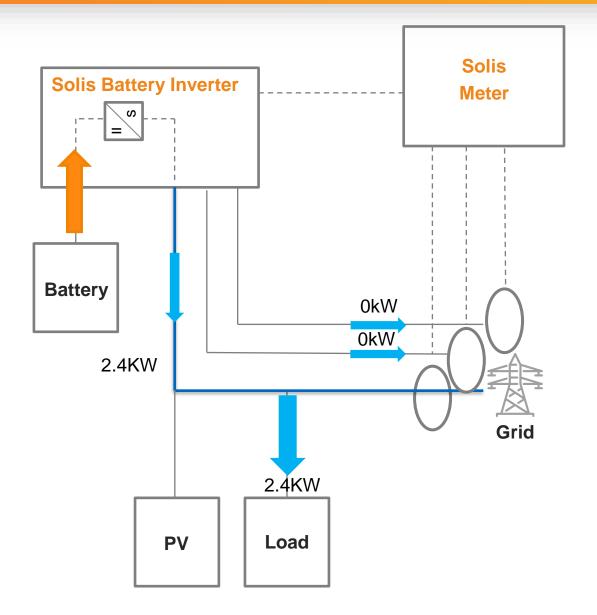


Average of the threephase meter power



# **Unbalanced Loads**



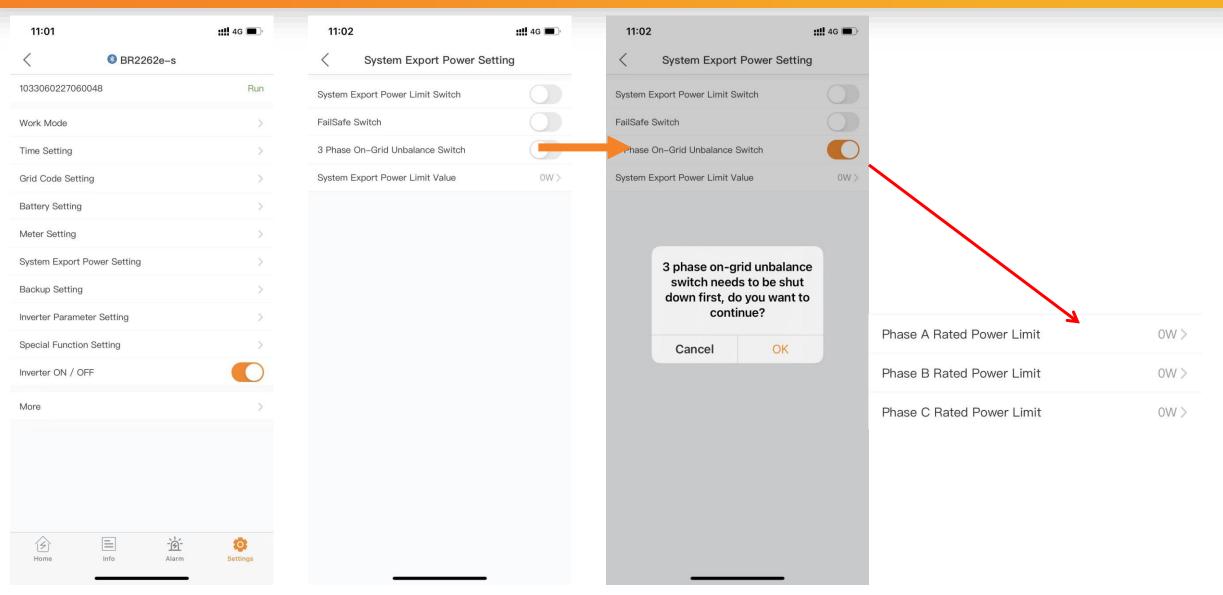


Now with unbalanced loads



## Unbalanced







#### Other capabilities



Up to 50A/10kW max charge/discharge rating



Switching time <10ms:
Uninterrupted power supply

1.6 DC:AC ratio.

Connect more PV

capacity

Integrated AFCI function

Up to 16A MPPT input current: Supports high power modules





Thanks For Listening!

