

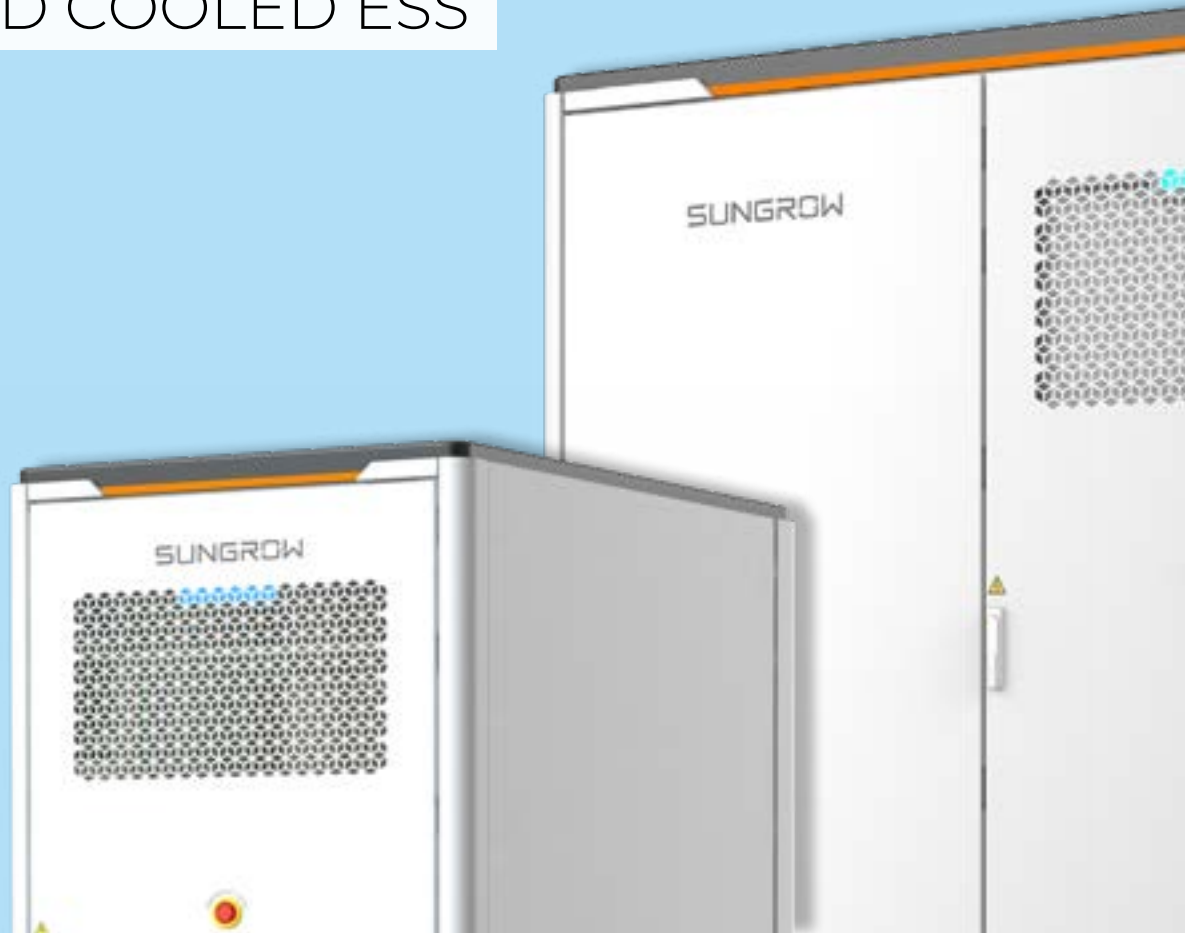
# PLEASE READ CAREFULLY

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# THE NEW POWERSTACK 200CS SERIES

C&I LIQUID COOLED ESS



## **COST-EFFECTIVE**

Fully integrated system design with pre-installation and pre-commissioning.



## **SAFE & RELIABLE**

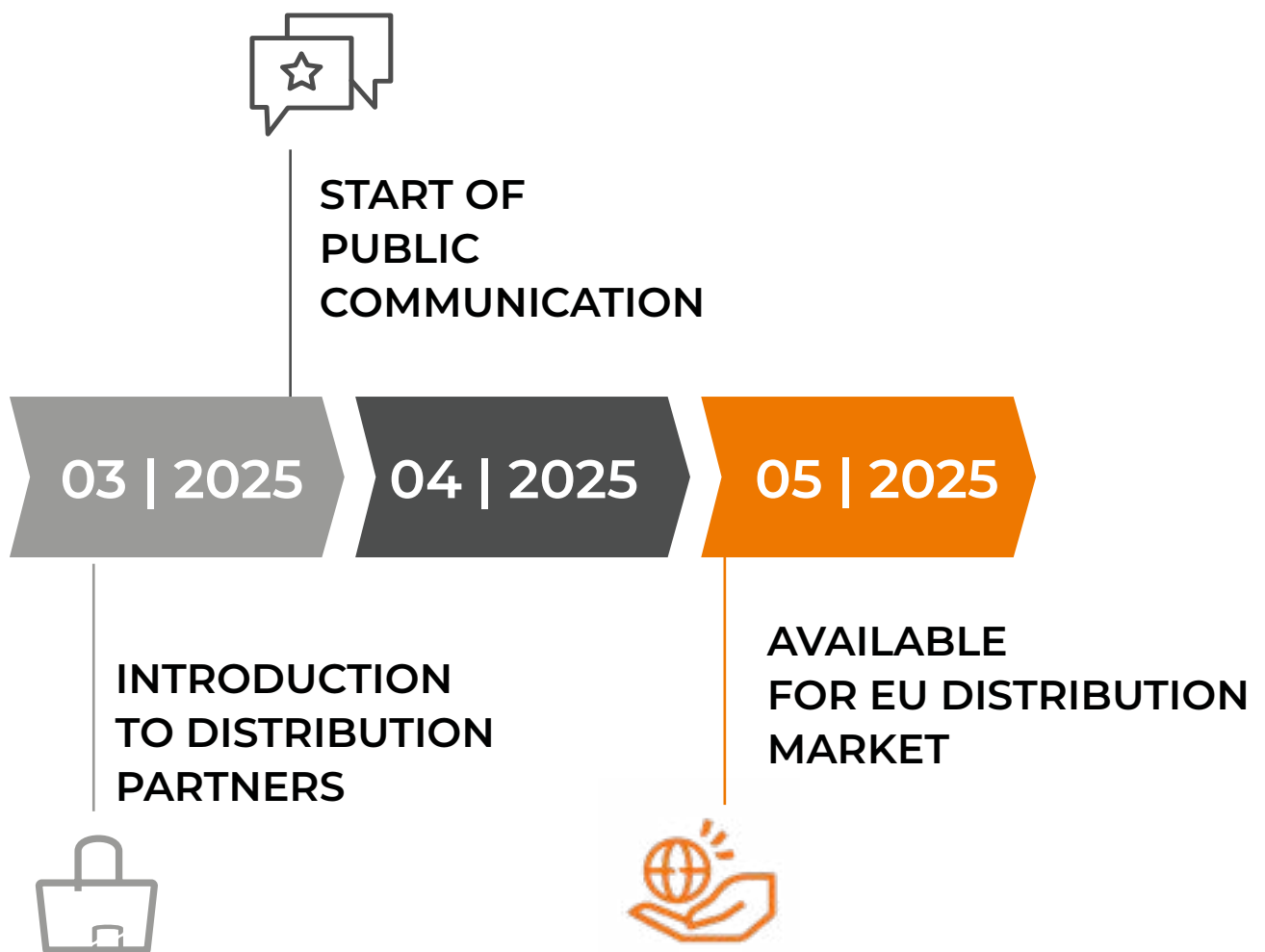
AI monitoring of cell health with early warning.  
Three-level fire safety design.



## **EFFICIENT & FLEXIBLE**

High-efficiency PCS with max. efficiency 98.5%. Seamless side by side connection, with up to 25 devices in parallel

# TIMETABLE FOR THE NEW GENERATION



# LOGISTICS 200CS

## 225KWH

**Article Number\***

AOSJ0599 \*

\* for Powerstack 2h without ventilation panel, with EMS300CP included inside

**Single product weight**

3100 kg

**Single product dimension**

1150 mm \* 2450 mm \* 1610 mm

## 455KWH

**Article Number**

COMING SOON

**Single product weight**

5300 kg

**Single product dimension**

2152 mm \* 2470 mm \* 1610 mm



# CERTIFICATION STATUS



Certification availability across  
all major EU markets in 2025\*

\*please refer to our certification overview for continuous updates.

# FREQUENTLY ASKED QUESTIONS

1

**What is the battery modules' state upon delivery?**

The battery modules arrive pre-installed and connected within the PowerStack, reducing installation effort.

2

**What is the resistance corrosion protection level?**

The protection level is C5-L.

3

**How many cycles does Sungrow guarantee for the battery system?**

Sungrow guarantees 6,500 cycles for the battery system. Please refer to the Distribution Warranty Document on Sungrow website for all updated information.

4

**Why does the system use liquid cooling, and what are its benefits?**

The liquid cooling system ensures balanced heat dissipation, reducing temperature differences to  $\leq 2.5^{\circ}\text{C}$ . This improves efficiency, extends battery lifespan, and lowers overall system heat loss.

5

**What fire suppression methods are included in the system?**

The system includes a three-level fire safety system, such as a detection and alarm system, an aerosol-based extinguisher, smoke detector, a heat detector and a backup system consisting of a sprinkler.

6

**Can partners commission the system themselves, or is Sungrow staff required?**

Commissioning is carried out by Sungrow staff or trained Sungrow distributors and installers.

7

**How can I find out if the product is certified for my country?**

Please always check the latest certification overview on our website to ensure compliance with local regulations.

8

**How do I connect the PowerStack to existing PV plant?**

If you are using Sungrow CX or CX-P2 PV inverters with Logger1000 you can control the whole system via iSolarCloud including PowerStack thanks EMS300CP optional controller.

The PowerStack is compatible with all major third party EMS systems.



# MORE HARD FACTS

## 225KWH

	ST225kWh-110kW-2h
<b>DC side</b>	
Cell type	LFP 3.2 V / 280 Ah
System battery configuration	256S1P
Nominal capacity	229 kWh
Nominal voltage range	691.2 V ~ 934.4 V
<b>AC side ( on-grid )</b>	
Nominal power	110 kW
Nominal voltage	400 V
Voltage range	340 V ~ 440 V
Nominal frequency	50 Hz / 60 Hz
Frequency range	45 Hz ~ 55 Hz / 55 Hz ~ 65 Hz
Max.THD of current	< 3 % ( Nominal power )
DC component	< 0.5 % ( Nominal power )
Power factor range	1.0 leading ~ 1.0 lagging
<b>AC side ( off-grid ) *</b>	
Nominal voltage	400 V
Nominal frequency	50 Hz / 60 Hz
Max.THD of voltage	< 3 % ( Linear load )
Unbalance load capacity	100 %
<b>System parameter</b>	
Dimensions ( W * H * D )	1150 mm * 2450 mm * 1610 mm
Weight	3100 kg
Degree of protection	IP55
Auxiliary power supply	Internal power supply ( Default ) External power supply ( Optional )
Anti-corrosion degree	C5 ( Default ) C3 ( Optional )
Operation humidity range	0 % ~ 100 %
Operation temperature range	-30 ~ 50 ( > 45 derating )
Max. operating altitude	3000 m
Temperature control method	Intelligent liquid cooling
Noise	≤ 70 dB ( A ) @ 1 m
Fire suppression system	Default□Flammable gas detector, Smoke detector, Heat detector, Alarm sounder, Aerosol, Sprinkler Optional: FK5112
Communication interface	Ethernet
Communication protocol	Modbus TCP
Standard	IEC 62619, IEC 63056, IEC 62040, IEC 62477, IEC 61000, IEC 62933, UN 38.3
Max.Parallel quantity ( off-grid )	10
<b>Transformer cabinet parameter *</b>	
Transformer capacity	250 kVA
Primary side voltage / Secondary side voltage	400 V / 400 V ( Dyn11 )
Nominal frequency	50 Hz / 60 Hz
Dimensions ( W * H * D )	1200 mm * 2000 mm * 1200 mm
Weight	1500 kg
Degree of protection	IP55
Anti-corrosion degree	C5 ( Default ) C3 ( Optional )
Operation humidity range	0 % ~ 100 %
Operation temperature range	-30 ~ 50 ( > 45 derating )
Max. operating altitude	3000 m
	Air cooling

\* The transformer cabinet is needed additionally when the system is in off-grid mode.



# MORE HARD FACTS

## 455KWH

	ST455kWh-110kW-4h
<b>DC side</b>	
Cell type	LFP 3.2 V / 280 Ah
System battery configuration	256S2P
Nominal capacity	458 kWh
Nominal voltage range	691.2 V ~ 934.4 V
<b>AC side ( on-grid )</b>	
Nominal power	110 kW
Nominal voltage	400 V
Voltage range	340 V ~ 440 V
Nominal frequency	50 Hz / 60 Hz
Frequency range	45 Hz ~ 55 Hz / 55 Hz ~ 65 Hz
Max.TH.D of current	< 3 % ( Nominal power )
DC component	< 0.5 % ( Nominal power )
Power factor range	1.0 leading ~ 1.0 lagging
<b>AC side ( off-grid ) *</b>	
Nominal voltage	400 V
Nominal frequency	50 Hz / 60 Hz
Max.TH.D of voltage	< 3 % ( Linear load )
Unbalance load capacity	100 %
<b>System parameter</b>	
Dimensions ( W * H * D )	2152 mm * 2470 mm * 1610 mm
Weight	5300 kg
Degree of protection	IP55
Auxiliary power supply	Internal power supply ( Default ) External power supply ( Optional )
Anti-corrosion degree	C5 ( Default ) C3 ( Optional )
Operation humidity range	0 % ~ 100 %
Operation temperature range	-30 ~ 50 ( > 45 derating )
Max. operating altitude	3000 m
Temperature control method	Intelligent liquid cooling
Noise	≤ 70 dB ( A ) @ 1m
Fire suppression system	Default : Flammable gas detector, Smoke detector, Heat detector, Alarm sounder, Aerosol, Sprinkler Optional : Ventilation system
Communication interface	Ethernet
Communication protocol	Modbus TCP
Standard	IEC 62619, IEC 63056, IEC 62040, IEC 62477, IEC 61000, UN 38.3, AS/NZS 4777.2, AS/NZS 3000
Max.Parallel quantity ( off-grid )	10
<b>Transformer cabinet parameter *</b>	
Transformer capacity	250 kVA
Primary side voltage / Secondary side voltage	400 V / 400 V ( Dyn11 )
Nominal frequency	50 Hz / 60 Hz
Dimensions ( W * H * D )	1200 mm * 2000 mm * 1200 mm
Weight	1500 kg
Degree of protection	IP55
Anti-corrosion degree	C5 ( Default ) C3 ( Optional )
Operation humidity range	0 % ~ 100 %
Operation temperature range	-30 ~ 50 ( > 45 derating )
Max. operating altitude	3000 m
Temperature control method	Air cooling

\* The transformer cabinet is needed additionally when the system is in off-grid mode.

