



# **The sonnen Megawatt Series A**

**Smaller C/2 LFP System**

**250kW / 573kWh Single Block**

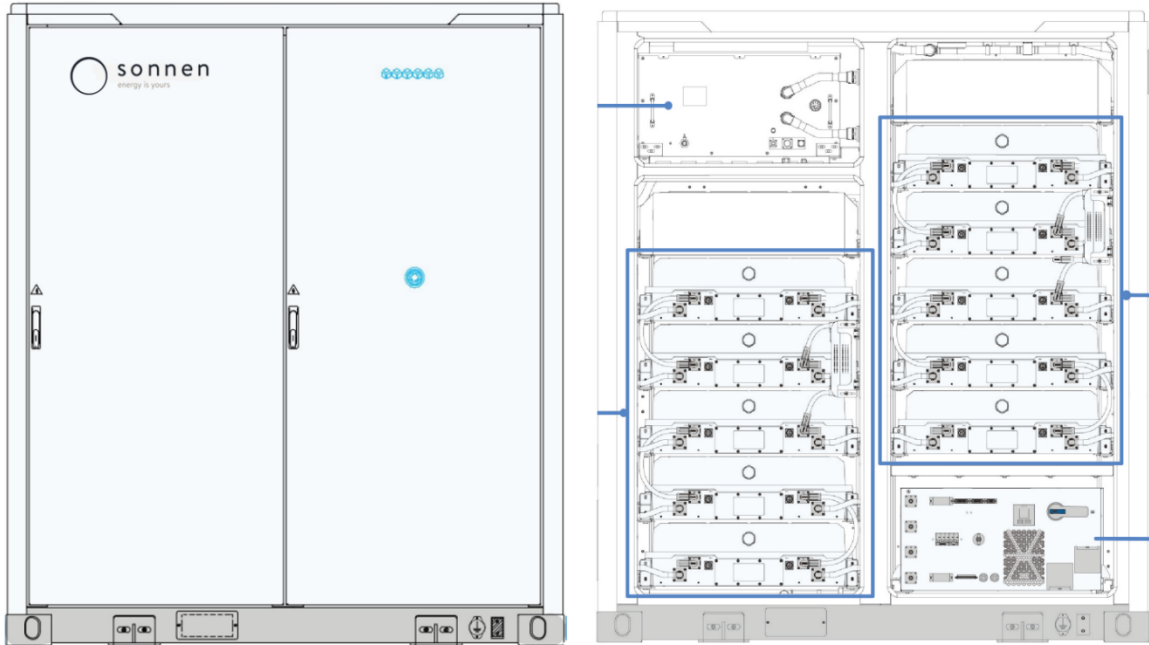
**Stackable to 30 MWh**

**For Limited Distribution to Approved Projects Only**

**by Dhaval Patel – Technical Director, Large Scale C&I R&D**



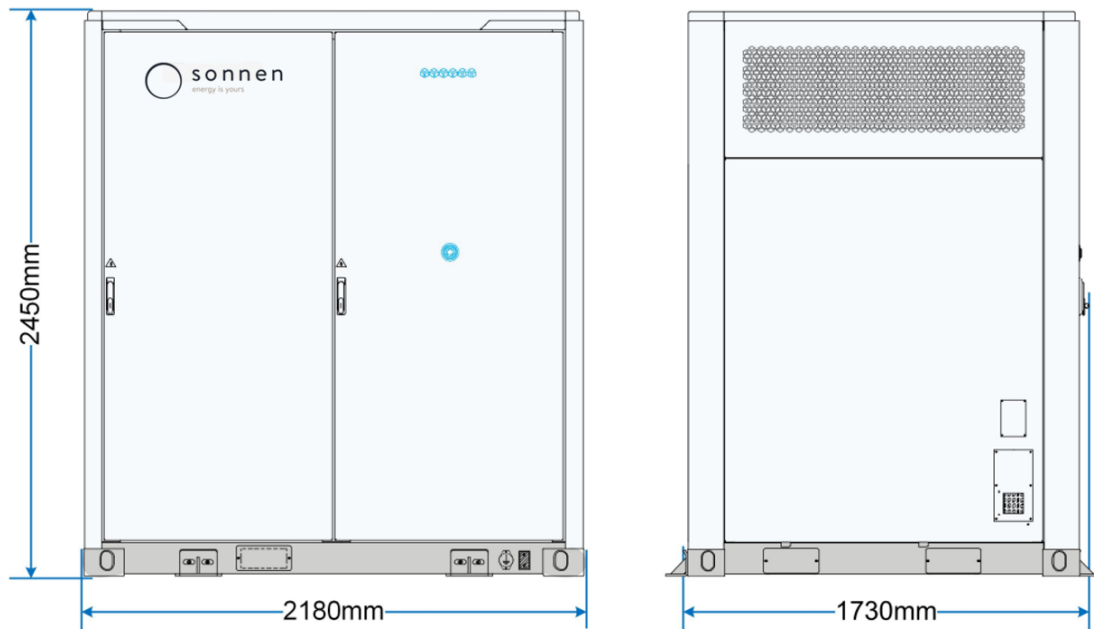
## 1. 573KWh Battery Storage System Specification



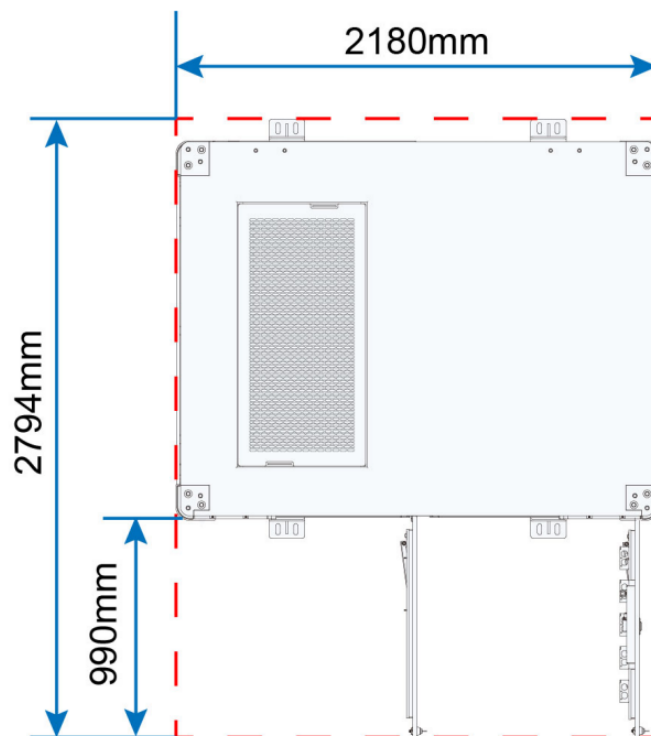
Battery cabinet data	Specification
Cell type	LFP
System battery configuration	320S2P
Battery capacity (BOL) at DC side	573kWh
System output voltage range	864~1168V
Multiplying Power	≤ 0.5C
Life Cycle (EOL)	≥ 8000 (Capacity ≥ 60% EOL at 20yr)
Dimensions of battery unit (W * H * D)	2180*2450*1730mm (single cabinet)
Weight of battery unit	6100kg (single cabinet)
Degree of protection	IP54
Anti-corrosion grade	C3
Relative humidity	0 ~ 95 % (non-condensing)
Operating temperature range	-30 to 50°C (> 45°C derating)
Max. working altitude	3000m
Cooling concept of battery chamber	Liquid cooling
Fire safety equipment	Combustible gas detection and ventilation system, Water-based fire suppression
Communication interfaces	Ethernet
Communication protocols	Modbus TCP
Compliance	UL1973, UL9540, UL9540A, UN38.3



## 2. The External Dimension of 573KWh Battery Cabinet

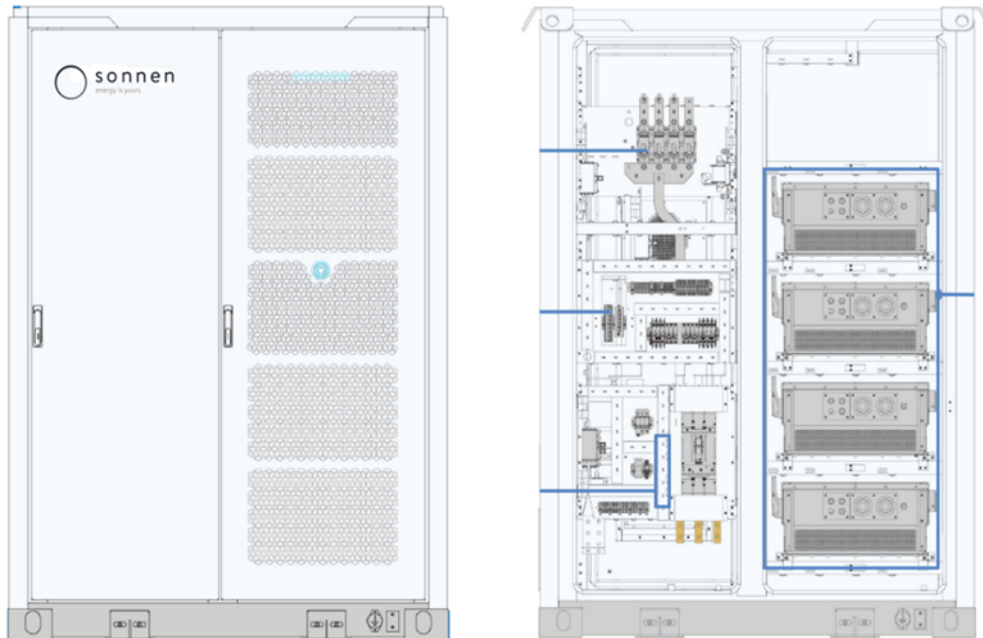


## 3. The Door Opening Size of 573KWh Battery Cabinet





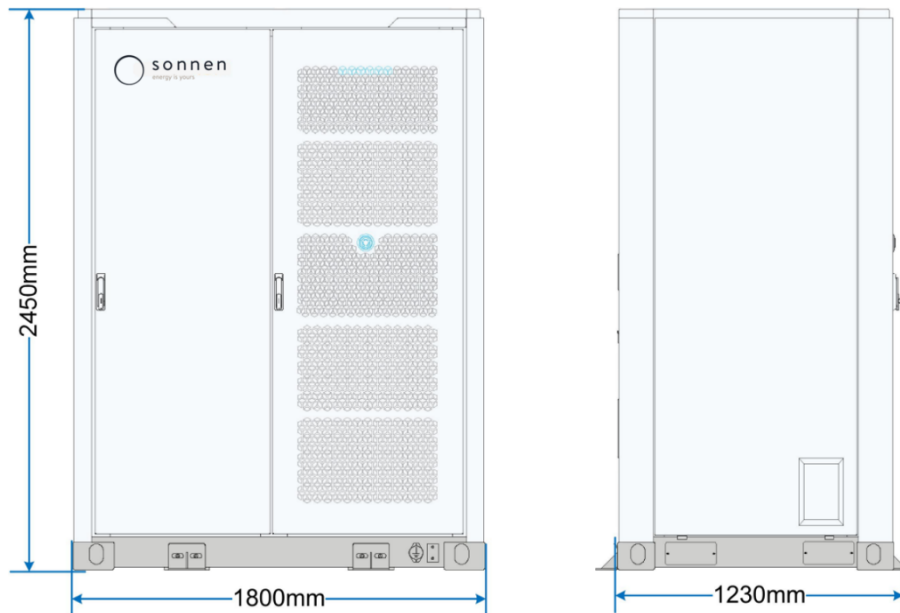
## 4. 250KW PCS Cabinet Specification



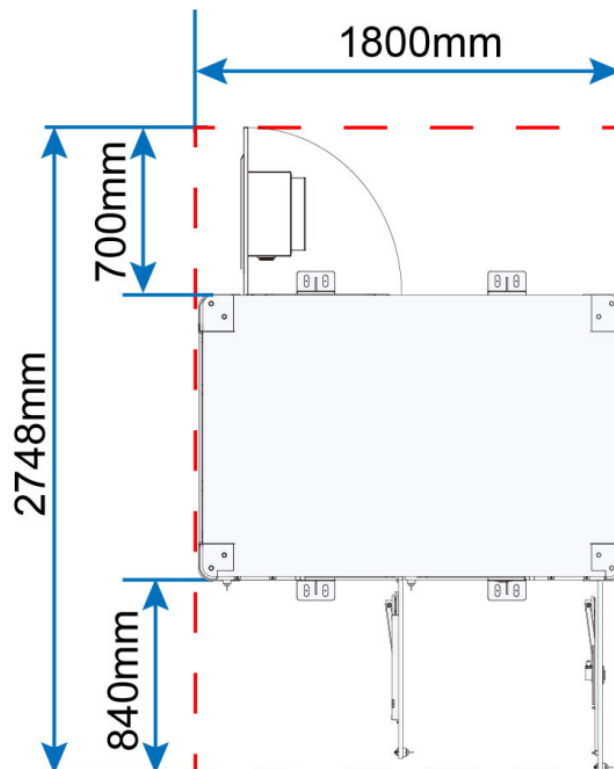
PCS cabinet data	Specification
Nominal AC power	250kVA@45°C
Max. THD of current	<3% (at nominal power)
DC component	<0.5% (at nominal power)
Nominal grid voltage	480V
Nominal grid voltage range	422.4V ~ 528V
Nominal grid frequency	60Hz
Nominal grid frequency range	55 ~ 65Hz
Dimensions (W * H * D)	1800*2450*1230mm
Weight of PCS unit	1500kg (single cabinet)
Degree of protection	IP54
Anti-corrosion grade	C3
Allowable relative humidity range	0 ~ 95 % (non-condensing)
Operating temperature range	-30 to 50°C (> 45°C derating)
Max. working altitude	3000m
Communication interfaces	Ethernet
Communication protocols	Modbus TCP
Compliance	UL1741, UL1741SA Rule 21, IEEE1547:2018, UL1741 SB



## 5. The External Dimension of 250KW PCS cabinet



## 6. The Door Opening Size of 250KW PCS cabinet





## 7. Example- SLD of 1MW-2MWh BESS Connection

