SUNKET -ESS

Energy Storage Battery



PowerCube Series

SKT800D / SKT2000D / SKT2500D / SKT3000D

3000W AC Bidirectional Power
Charge Faster. Power More.

Solar Retrofit Ready
Add storage, keep inverter.

3000W Solar Input
4 MPPTs. Every Panel at Its Best.

10ms Backup Power
Grid Down . Life Goes On.

AI Energy Management
Save More Automatically.

Scalable Storage
Expand from 2.5kWh to 27.5kWh.

Plug & Play Installation
Install in Minutes.

12,000-Cycle LFP Battery
Built to Last.

All-in-One:
Microinverter+Battery

Model: SKT Series
Built-in 2.5kWh battery

Battery Module: 2.5kWh

Model: SKT2500D

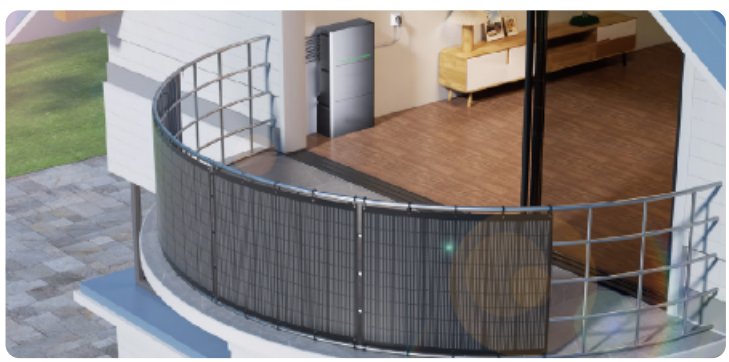
Battery Module: 5kWh

Model: SKT5000D









Technical Specifications PowerCube Series

SUNKET -ESS

MODEL	SKT800D	SKT2000D	SKT2500D	SKT3000D
PV Input				
Commonly Module Power (W)[1]	200~550W+	400~670W+	500~710W+	610~750W+
Power (W)	1000W (250W × 4)	2100W (525W × 4)	2600W (650W × 4)	3000W (750W × 4)
MPPT Voltage Range (V)	18~60V			
Maximum Voltage (V)	60V			
Max. Input Current(A)	4x20A			
Max. Input Short Circuit Current(A)	4x22A			
MPPT Number	4			
AC Input				
Voltage (V)[2]	230, 240 / 184 ~ 253V			
Frequency (Hz)[2]	50Hz			
Max. Input Current(A)	13.8A			
Max. Power Range(W)	1000 ~ 3000W*			
On Grid				
Power (W)	800W	2000W*	2500W*	3000W*
Voltage (V)[2]	230, 240 / 185 ~ 253V			
Rated Output Current (A)	3.5A	8.7A	10.9A	13.0A
Frequency (Hz)[2]	50Hz			
Max. Output Current(A)	16A			
Overvoltage Class AC Port	Ⅲ			
Power Factor	0.8(lagging)~0.8(leading), >0.99 (default)			
Total Harmonic Distortion	<3%			
Off Grid				
Peak Output Power (W)	4500W (15s)*			
Maximum Output Continuous Power (W)	3000W*			
Voltage (V)[2]	230V / 218.5 ~ 241.5V			
Frequency (Hz)[2]	50Hz / 49.5 ~ 50.5Hz			
Rated Output Current (A)	13A			
EPS Switch Time	≤10ms			
DC Battery				
Capacity	2508.8 Wh			
Battery Type	$LiFePO_4$ (LFP)			
Cycle Life	12000 Cycles			
Protections				
Insulation Monitoring	Yes			
DC Surge Protection	Yes			
Residual Current Monitoring	Yes			
General Data				
Charging Temperature (°C)	0°C to 50°C			
Discharging Temperature (°C)	-20°C to 55°C			
Storage Temperature (°C)	-25°C to 60°C			
Dimensions (W x D x H mm)	538 × 195 × 278mm			
Weight (kg)	24.9Kg			
Enclosure rating	IP65			
Relative humidity	5~90%			
Max. operation altitude (m)	≤ 2000			
Integrated Wi-Fi	802.11 b/g/n, 2.4 GHz			
Zero Injection (EMS Function Included)	Smart Meter (Optional)			
Monitoring	VIP Cloud			
Display	LED Indicators; APP			
Compliance	EN/IEC62109-1/2, EN/IEC61000, EN/IEC62920, EN/IEC62311:2019/2020, EN50665:2017, EN300328, EN301489-1/-17, EN50549-1:2019, EN50549-10:2022, VDE-AR-N 4105, IEC/EN 62477, IEC/EN 63056, UN38.3			

* a. The PV and battery ports can work together to deliver maximum power. b. When the battery capacity is 2.5 kWh, the maximum AC output power from the battery alone is 1200W. When the battery capacity is ≥7.5 kWh, the AC output power from the battery alone can be increased to 3000W. c. The maximum power can be utilized for charging from both PV and AC port.
*1 Compatible with 99% of mainstream solar panels.
*2 The nominal voltage/frequency range may vary based on local requirements.

Specifications are subject to change without further notification
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Technical Specifications PowerCube Pack Series

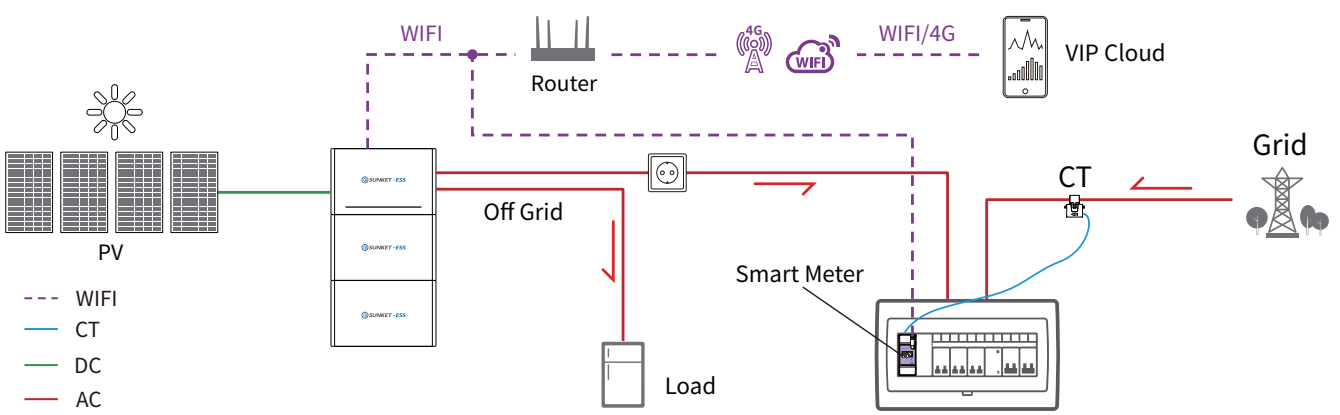
Stackable Solution



Expansion Battery	SKT	+1	+2	+3	+4	+5
SKT Series + SKT2500D	2.5kWh	5kWh	7.5kWh	10kWh	12.5kWh	15kWh
Maximum AC Output Power	1200W	2400W	2500W	2500W	2500W	2500W

Model	SKT2500D
DC Battery	
Capacity	2508.8 Wh
Battery Type	$LiFePO_4$ (LFP)
Cycle Life	12000 Cycles
Dimensions (W x D x H mm)	538 × 195 × 278mm
Weight (kg)	22.9Kg
Charging Temperature (°C) [1]	0°C to 50°C
Discharging Temperature (°C) [2]	-20°C to 55°C
Storage Temperature (°C) [3]	-25°C to 60°C
Enclosure rating	IP65
Relative humidity	5~90%
Max. operation altitude (m)	≤ 2000
Compliance	UN 38.3, IEC/ EN 62619, IEC/ EN 63056, IEC/ EN 62477

*1 The temperature ranges provided are applicable to the internal battery module.
*2 Do not use the device outside the specified temperature range. Performance may vary with temperature. Refer to the user manual.
*3 Storing the device beyond the specified temperature range is prohibited. For detailed instructions, refer to the user manual.



* Smart Meters are optional energy management terminals that help intelligently control home energy usage.

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Technical Specifications PowerCube Pack Series

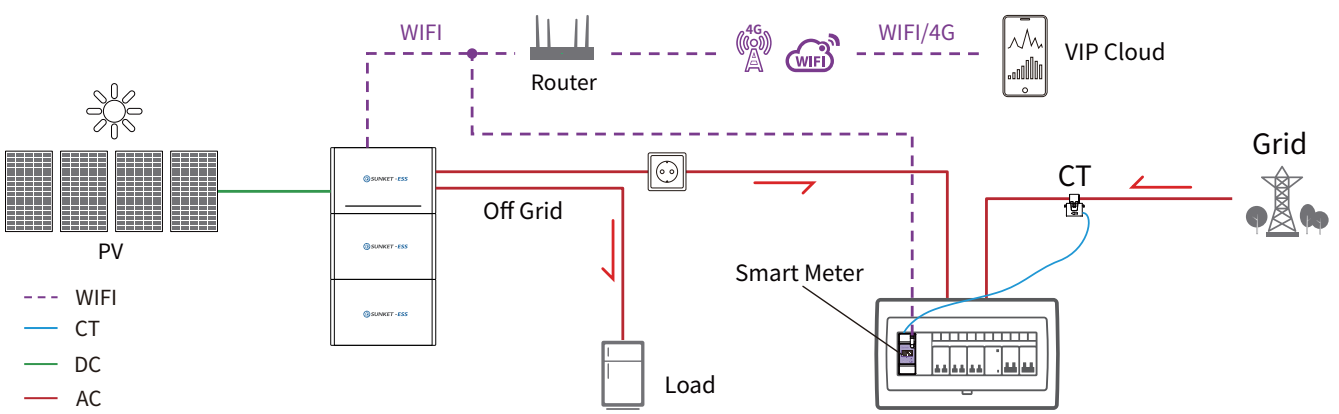
Stackable Solution



Expansion Battery	SKT	+1	+2	+3	+4	+5
SKT Series + SKT5000D	2.5kWh	7.5kWh	12.5kWh	17.5kWh	22.5kWh	27.5kWh
Maximum AC Output Power	1200W	2500W	2500W	2500W	2500W	2500W

Model	SKT5000D
DC Battery	
Capacity	5017.6 Wh
Battery Type	$LiFePO_4$ (LFP)
Cycle Life	12000 Cycles
Dimensions (W x D x H mm)	538 × 280 × 278mm
Weight (kg)	34.6Kg
Charging Temperature (°C) [1]	0°C to 50°C
Discharging Temperature (°C) [2]	-20°C to 55°C
Storage Temperature (°C) [3]	-25°C to 60°C
Enclosure rating	IP65
Relative humidity	5~90%
Max. operation altitude (m)	≤ 2000
Compliance	UN 38.3, IEC/ EN 62619, IEC/ EN 63056, IEC/ EN 62477

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