


US Energy Storage System Sunket New Energy



 4521 Campus Drive, #245, Irvine CA, 92612
No.888, Qinghong Road, E'hu Town, Wuxi City, Jiangsu Province, P.R.China (Fábrica)

 info@sunket.us  <https://sunket.us>





12kw/16kWh Hybrid Energy Storage System List

Item	Model	Description	Quantity
1	Solar Panle	All Black Mono 580W,SKT580M10-144S2	24pcs
2	Hybird Inverter	12kW,240V/60Hz,R12KLNA	1set
3	Lithium Battery	LFP 16kWh / LV	1set
4	Cable	4mm ²	200m
5	Connector	MC4 Compatible	12pairs
6	Bracket	Composite Tile	1set



N-TYPE

SKT580M10-144S2 580 Watt

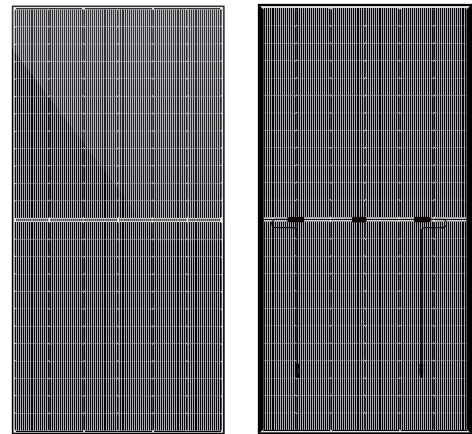
Electrical Characteristics (STC/NOCT)

182mm 16BB 144Cells All Black Double Glass Bifacial
Mono Half Cell PV Module Series

Module Type	SKT580M10-144S2	
	STC	NOCT
Maximum Power- Pmax(W)	580	436
Open Circuit Voltage - Voc(V)	51.47	48.89
Short- Circuit Current - Isc(A)	14.37	11.21
Voltage at Pmax -Vmp(V)	42.60	39.86
Current at Pmax - Imp(A)	13.62	10.94
Module Efficiency - η m(%)	22.45	/
Power Tolerance(W)	(0, +4.99W)	
Maximum System Voltage(V)	1500Vdc (IEC / UL)	
Maximum Series Fuse Rating (A)	30A	

STC : Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

NOCT : Irradiance 800W/m², Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s

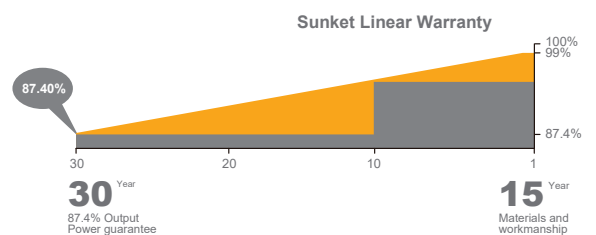


Mechanical Specifications

External Dimensions	2278x1134x30mm
Weight	30.5kg
Solar Cells	16BB 182mm (2x72pcs)
Glass	AR Coated 2+2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm ² ,1200mm (+), 1200mm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

Packing Configuration

Pallet Dimensions	2320x1140x1254mm
Container	40'HQ
Pieces per Pallet	37
Pallets per Container	20
Pieces per Container	740





LFP 12kW / LV Split-Phase hybrid inverter

REVO Residential Energy Storage Inverters

PV Input

Model	R12KLNA
Max.DC input power (kW)	18
No. of MPPT trackers	4
MPPT voltage range (without battery) (V)	120~500 / 120~430
MAX.DC input voltage (V)	500
MAX. input current per MPPT (A)	16/16/16/16
MAX. short current per MPPT (A)	22

Battery Input

Nominal voltage (V)	48
MAX.charging/discharging current (A)	250/260
Battery voltage range (V)	40-58
Battery type	Lithium /Lead-acid
Charging controller	3-Stage with equalization

AC Output(On-grid)

Nominal output power output to grid (kVA)	12
MAX. apparent power output to grid (kVA)	13.2
Nominal AC voltage(L-N/L1-L2)(V)	(110~120)/(220~240)split phase, 240V single phase
Nominal AC frequency(Hz)	60Hz(55 to 65Hz)
Nominal AC current (A)	50
Max. AC current (A)	55
Max. grid passthrough current (A)	200
Output THDi	<3%

General data

Mppt efficiency	99.9%
Europe efficiency(PV)	96.2%
Max. PV to grid efficiency(PV)	96.5%
Max. battery to load efficiency	94.6%
Max. PV to battery charging efficiency	95.8%
Max. grid to battery charging efficiency	94.5%
Operating temperature range (°C)	-25~+60
Relative humidity	0-95%
Operating altitude	0~4,000m(Derating above 2,000m altitude)
Ingress protection	IP65/NEMA 3R
Built-in breaker	Optional
Weight (kg)	53kg(56kg with breaker)
Dimensions W*H*D (mm)	495 x 900 x 260
Cooling	FAN cooling
Noise emission (dB)	38
Display	Touch panel
Communication with BMS/Meter/EMS	RS485, CAN
Supported communication interface	RS485, 4G (optional), Wi-Fi
Self-consumption	<25W

Safety UL1741, UL1741SA&SB all options, UL1699B, CSA -C22.2 NO.107.1-01,RSD(NEC690.5,11,12),

EMC FCC part 15 class B

Grid connection standards IEEE 1547, IEEE 2030.5, HECO Rule 14H, CA Rule 21 Phase I,II,III, CEC,CSIP,SRD2.0,SGIP,OGPe,NOM,California Prob65

AC Output(Back-up)

Nominal. apparent power (kVA)	12
Max. apparent power (no PV) (kVA)	12
Max. apparent power (with PV) (kVA)	13.2
Nominal output voltage(V)	120/240
Nominal output frequency (Hz)	60
Automatic switchover time (ms)	<20
Output power factor	0.8leading~0.8lagging
Output THDu	<2%

Protection

Grounding detection	Yes
Arc fault protection	Yes
Island protection	Yes
Insulation resistor detection	Yes
Residual current monitoring unit	Yes
Output over current protection	Yes
Back-up output short protection	Yes
Output over voltage protection	Yes
Output under voltage protection	Yes

Other data

Peak power (off grid)	110%,30s /
	120%,10s /
	200%,5s



LFP 16kWh / LV

51.2V 314Ah

RECHARGERABLE LITHIUM BATTERY

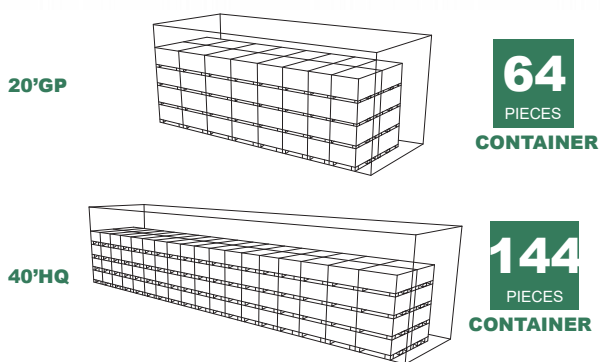


Electrical Characteristics

Module Type	LFP 16kWh / LV
Nominal Capacity (at 25°C)	16kWh
Usable Capacity (90%DOD)	14.4kWh
Nominal Dis-/Charge Power	10kW
Peak Power ^(Only Discharge)	11.6kW for 3 seconds
Constant Current ^(Only Discharge)	200A
Operating Voltage Range	43~58V
Nominal Voltage	51.2Vd.c
Weight	120kg
Dimensions (Width×Height×Depth)	530*900*245mm
Certificates	UN38.3

Operating Condition	Indoor or outdoor
Operating Temperature Charge	From 0~45°C
Operating Temperature Discharge	From -10~50°C
Humidity	Up to 90% (non- condensing)
Pollution Degree	3
Over Voltage Category	II
Cooling Type	Natural cooling
IP Rating	IP 65
Protective Class	I
Max. Number of Parallel	4
Warranty	10 years
Life Span	>15 years
Communication Interface	CAN/RS485
Protection Mode	Triple hardware protection
Battery Protection	Over-current/Over-voltage/Short circuit/ Under-voltage

Compatible Inverters



Packing Configuration

Wooden Box Dimensions	1000×650×2300mm	
Container	20'GP	40'HQ
Pieces per Pallet	1	1
Pallets per Container	64	144
Pieces per Container	64	144

UN 38.3

