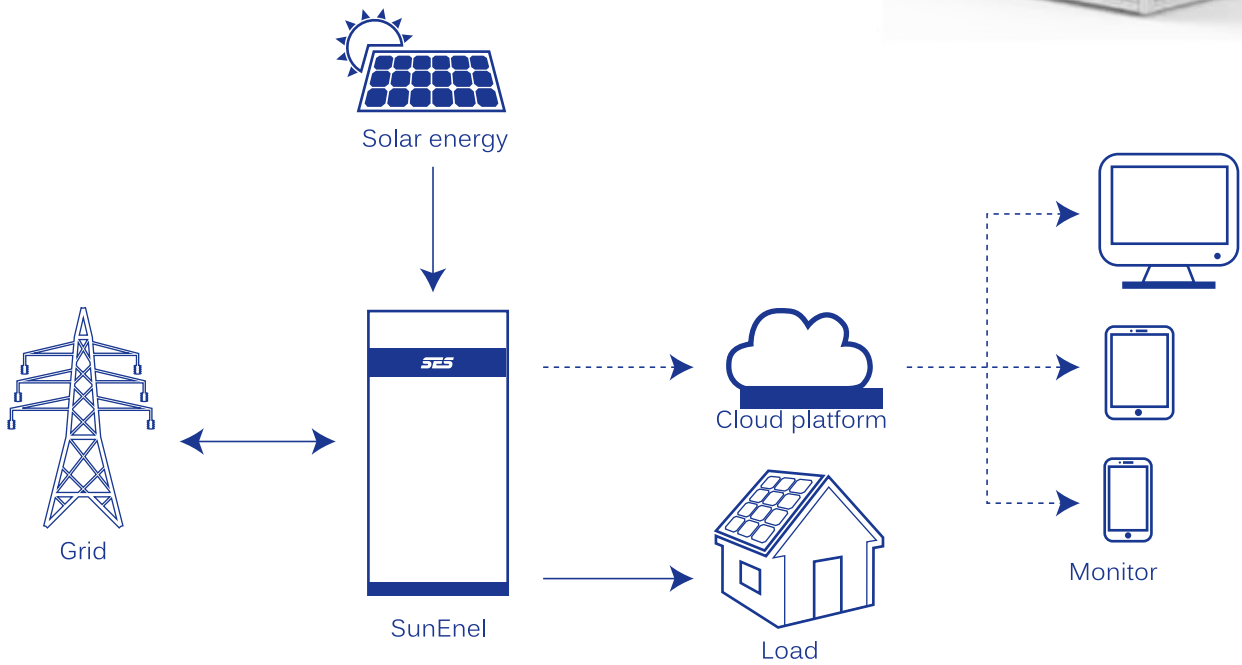


SunEnel

dedicated to your energy independence

-  24-hour clean energy supplying
-  Flexible design, easy to scale up
-  Automatically on/off-grid switch
-  Real-time monitoring at anywhere via app
-  Fast, easy installation



APPLICATIONS



Self consumption



Peak shifting



Backup power

SPECIFICATIONS

SYSTEM

Item	SunEnel-3K	SunEnel-5K
AC nominal output power (W)	3000	4600
Nominal AC voltage range (V)	230 VAC 50/60 Hz; 180 ~ 270 VAC	
AC nominal current (A)	13	20
Max.AC current (A)	14.4	22.1
Total harmonic distortion	< 3%	
Operate mode	on-grid/off-grid	
Switch time	< 6s	
Power factor (rate power)	1	
Displacement power factor	0.9 leading to 0.9 lagging	
Work temperature	0 C ~ 45 C	
Storage temperature range	-20 C ~ 55 C	

Inverter efficiency

Max. efficiency	97.6%
MPPT efficiency	99.9%
Euro-efficiency	97.0%
Max. charge efficiency	93.8%

Battery

Total energy	4.8 kWh	9.6 kWh
Usable energy	3.84 kWh	7.68 kWh
Battery type	Li-ion (LiFePO4)	
Components	battery cells + BMS + protection device (fuse)	
Over-current protection/ Over-temperature protection	Yes	
Round trip efficiency	> 90% (with standard charging/discharging condition)	
Cycle life	> 4000 times	
Warranty	10 years	
Rate voltage	48 V	48 V
Voltage range	45 V-54 V	
Max. charge current	50 A	100 A
Max. discharge current	100 A	100 A
Max. charge power	3 kW	5 kW
Max. discharge power	2.5 kW	4.6 kW
Depth of discharge	80%	
Over voltage protection	cell:≥3.75V, pack:≥52V	
Low voltage protection	cell:≤2.75V, pack:≤47V	
High temperature protection	charge:≥55 C, discharge:≥60 C	
Low temperature protection	≤ 0 C	
Cooling concept	natural convection	
Battery reverse polarity protection	Yes	
Battery anti-shock design	Yes	

Certification and standards

Grid standard	VDE-AR-N 4105, VDE 0126-1-1, G83/2, G59/3, AS4777.2/3,
Safety regulation	IEC62109-1/2, AS3100, IEC62040-1
EMC	EN61000-6-1/2/3/4, EN61000-3-11, EN61000-3-12
Environment	RoHS
Battery standard	IEC62619, UN38.3

Others

Installation environment	indoor	
Relative humidity	0 ~ 95% (non-condensing)	
Ambient temperature	0 C ~ 40 C	
Working altitude	< 2000m	
Cooling mode	natural cooling	
Noise index	< 40dB	
Protection grade	IP 20	
Display mode	APP, LCD	
Dimension (W×H×D)	560 × 1250 × 350 mm	560 × 1735 × 350 mm
Weight	190 kg	250 kg

PV SIDE

Max. input voltage	550 V	
Start voltage	125 V	
Nominal DC operating voltage	360 V	
MPPT working voltage	125 V ~ 530 V	
MPPT efficiency	99.9%	
Max. input power	3300 W	5000 W
Max. input current	12 A	12 A/12 A
Max. short circuit current	15 A	15 A/15 A
MPPT channel	1	2
Efficiency	97.6%	

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