

SolarEngineX ALL IN ONE ESS

Smart Small Solar Power Station

3.6kw/5.248kwh



Extraordinary Load-Carrying Capacity

Ability to carry motor loads: 0.6times the inverter rated power, support powering for professional power tools



High PV Input Power

Max PV input power of ≥ 1.5 times the rated power



Cost-Effectiveness

Highly integrated ESS saves cost and space effectively



Safety and Reliability

Grade -A LFP cells, IP54 protection, simple and safe wiring



User-Friendly

Moveable and easy installation, quiet operation with < 50 dB(A), support WIFI/APP upgrading



Worry-Free Services

24/7 technical support and free maintenance for 3 years, 2-year paid extended warranty

PV(DC Input)

Recommended max. PV input power	4500W
Max.input voltage(Voc)	500V
MPPT operating voltage range	75V-425V(@70V start up)
Number of MPPT	1
Max. number of input strings per MPPT	1
Input terminal	MC4
Max. input current per MPPT	18A
Max. short-circuit current per MPPT	22A

Grid(AC Input)

Max. input power	4600W
Max. input current	20A
Rated grid voltage	220/230/240Vac
Rated grid frequency	50/60Hz
Acceptable range	170-280Vac(For UPS); 90-280Vac (For Home Appliances)

Battery parameters (Bidirection)

Battery type	LiFePO4 /Lead-acid
Battery voltage range	20~30Vdc
Rated Battery Voltage	25.6Vdc
Max. charge/discharge current	120A/170A
Nominal Battery Energy	5.248KWH
Battery Capacity	205AH
BMS communication mode	CAN,RS485

Back-up Output (AC Output)

Rated output power	3600W/3600VA
Rated output current	16A
Rated output voltage/Frequency	220/230/240Vac 50/60Hz
Parallel Capacity	Single-phase Max. 12 units
Surge power	7000VA 5S
THDv (@ linear load)	<3%
AC output terminal	2 waterproof terminals 16A, 40A terminal blocks
Switching time	10ms typical (For UPS) 20ms typical (For Home Appliances)

Efficiency

Peak efficiency	92%
Max. MPPT efficiency	99%

Protection

Inner protection	✓Output short-circuit protection ✓Output overvoltage protection
Surge protection	PV: Type III, AC: Type III
IP rating	IP54

General Parameters

Operating temperature range	-10°C~ 55°C
Relative humidity range	5%~95%
Max. operating altitude	>2000m derating
Standby self-consumption	<30W
Installation type	Integrated roller
Cooling mode	Fan cooling
Communication	RS232/RS485/CAN/WI-FI
Display	LCD/APP

Mechanical Specifications

Inverter dimensions (L*W*H)(mm)	660*500*220
Net weight (kg)	53
Warranty period	3 Years+