

EnerSalvys

Energy Storage Systems

Energy Self-Consumption

- Daytime: Stored energy generated by Solar Panel
- Nighttime: Discharge stored energy for home use.

Peak Hours Shaving

- Reducing electricity consumption by using stored energy during electricity peak rate hours.

On-Grid Application

- Integration with existing On-Grid PV System.
- Use with or without PV Panel.

High Efficiency

- IPeak efficiency 97.3% Bi-directional DC-DC converter.

High Reliability

- 48Vdc Battery system with isolation safety.
- Maximized Reliability through Lithium-ion cells from Samsung or Panasonic.

Communication

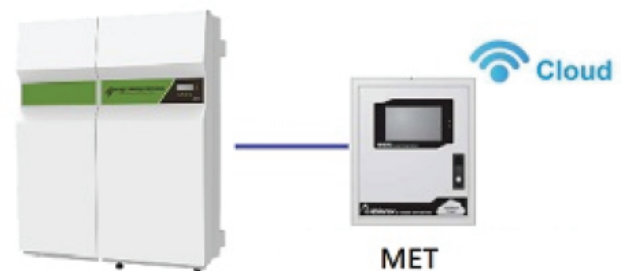
- Smart Metering (MET) to control and monitor battery storage and load demand.
- Cloud integration enables data access via the internet



BATTERY
CABINET

INVERTER

CONTROL PANEL



HOME/SMALL
OFFICES



COMMERCIAL



RESIDENTIAL



SMALL
CORPORATION

EnerSalvys Series Specifications

MODEL		AB-ESSINV3	AB-ESSINV4	AB-ESSINV5
System components		ESS-INV-3	ESS-INV-4, ESS-BAT, ESS-MET	ESS-INV-5
Model		ESS-INV-3	ESS-INV-4	ESS-INV-5
DC Input Data	Nominal DC input power	3300 W	4000 W	5000 W
	Nominal DC Voltage	360 VDC		
	Maximum DC input	500 VDC		
	Max DC input current Per MPPT	13A		
	MPPT Range	150 - 450VDC		
	MPPT Trackers	2		
AC Output Data	Nominal AC output power	3000 W	3680 W	4600 W
	Nominal AC output voltage	230Vac 50/60Hz 184~264Vac		
	Frequency Voltage range			
	Nominal AC output current	13A	16A	20A
	Maximum AC output current	14.34A	17.39A	21.7A
Current Distortion		Total Harmonic current: <3%		
Battery	Max. charger power	3000 W		
	Max. discharger power	3000 W		
Efficiency	Maximum Efficiency(PV-Grid)	>97.1%		
	EU efficiency	>96.5%		
	Maximum Efficiency (Battery-Grid)	>94.3%		
Enviromental	Operating ambient temperature	-10°C to +40°C		
	Relative Humidity	0 – 95 %non-condensing		
	Altitude	0~2000M 0~6600ft		
Mechanical	Size (height x width x depth)	810*455*270mm		
	Weight	30kg		
	Cooling	Natural		
	Enclosure type	IP65		
	Audible Noise	<25dBA		
	Mounting	Wall Mount (mounting bracket included)		
Communication	Comm. Interface	RS485		
	Display	Graphic LCD+LED panel(4.5")		
Certification	Grid standard	VDE0126-1-1,VDE-AR-N 4105		
	Safety	EN 62109-1,EN62109-2		
	EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-3, EN 61000-3-3,		
	Warranty	5 years(standard) /10/15/20/25years(optional)		

*Specifications subject to change without notice.



EnerSalvys Series Specifications

MODEL		AB-ESS-BAT
Battery Module	Battery Type	Li-ion
	Size (height x width x depth)	810*366*270mm
	Weight	60kg
	Enclosure type	IP65
Battery Charger Specs	Max. charge Power	3000 W
	Nominal Battery Voltage	51.2 VDC
	Maximum Battery Voltage	54.6 VDC
	Minimum Battery Amp Hours	40 Amp-hours/module
	Max Battery Charging Current	55 Amps
	Capacity	6kWh(3 modules) or 12kWh(6 modules)
	Cycle Life	6000(80% DoD/0.3C)
	Battery Charge Stages	CC,CV
	Operating Temperature	-10°C to +40°C
Battery Discharger Specs	Max. Discharge Power	3000 W
	Max Battery discharging Current	55 Amps
	Discharge End Voltage	45V
	Operating Temperature	-10°C to +40°C
	Warranty	10 years



MODEL		AB-ESS-MET
Measures		P/Q/A/V/F
AC phases		1
Rated grid voltage/ voltage range		230 V/ 184...265 V
Rated grid frequency/ frequency range		50-60 Hz/ 45....65Hz
Power supply and consumption		Integrated, <5W
Size (height x width x depth)		403*343*106mm
Weight		7kg
Enclosure type		IP20
Safety and EMC		IEC 61010-1, IEC 61326-1
Operating ambient temperature		0°C to +40°C
Storage ambient temperature		-20°C to +70°C
Relative Humidity		0 – 95 % non-condensing
Display size		7 inch
Display resolution		800x480
Display touch		Resistive Touch Screen
Display operating system		WinCE 6.0
Communication interface		RS485-1, RS485-2, Ethernet 10/100(RJ45)
Storage		8G SD card (Up to 16G)

