



3-phase 380V/220V Mini C&I ESS

8kVA/10kVA/12kVA/15kVA/20kVA
Inverter, extended to 80kwh
battery all-in-one



5 Level

Extreme
safety protection

≥ 8000

Cycles

10 Years

warranty

70%

EOL

Solution for Fast Install

Fully integrated, pre-configured package system reduces on-site installation time; includes inverter(s), battery trays, cabinet, BMS, Microgrid Controller, HVAC, fire suppression, islanding switch, and outdoor rated enclosure.

Safe Technology & Multi-level Protection

Tier 1 LiFePO4 Phosphate chemistry for the highest level of safety, thermal stability, and reliability; An integrated, multi-level Battery Management System(BMS) monitors, optimizes, and balances the system.

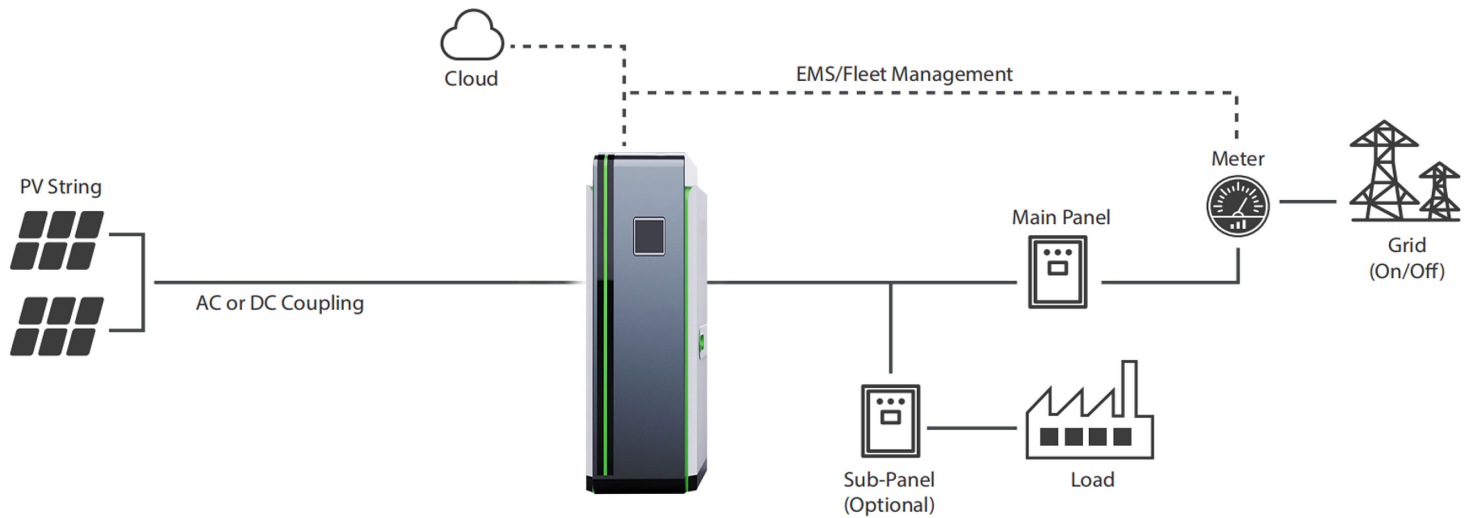
Easy & Flexible to Scale

The modular design allows for easy capacity expansion.
The cabinet design allows for installation in various settings. A single system can be expanded up to 800kWh.

Powerful Performance

Supports a rated DC Maximum power of 200kW. It can handle charge/discharge currents of 200A(recommended), 200A (nominal), and up to 250A peak discharge for 2 minutes at 25°C.

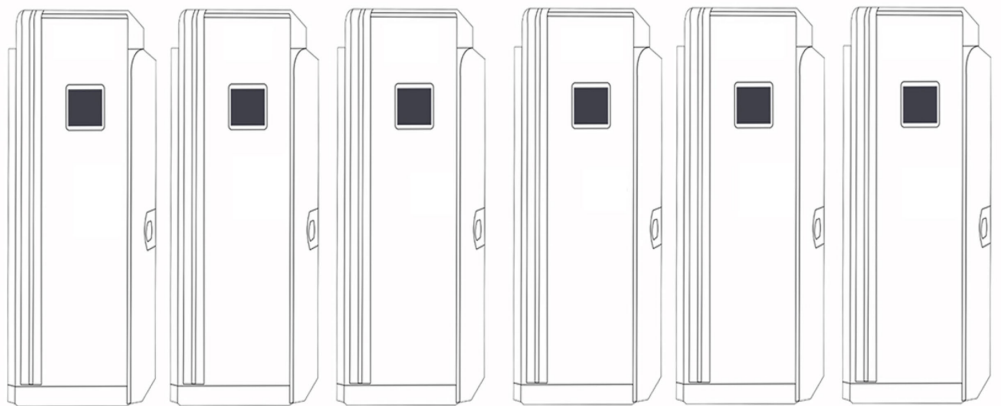
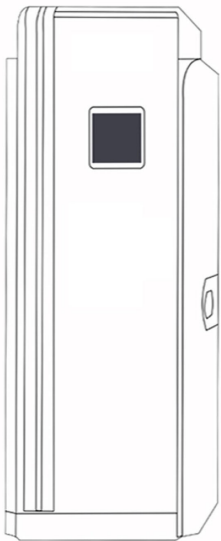
Typical Application Scenarios



Product Expansion

System Expansion

MAX: 120KW/480kWh



System Expansion

MAX: 200KW/800kWh



The AC side of the inverter can be parallel with ten machines

Model	BSS-EU-6K28kWh	BSS-EU-8K32kWh	BSS-EU-10K43kWh	BSS-EU-16K64kWh	BSS-EU-20K80kWh
System Specification					
Nominal Output Power/UPS Power (W)	6000	8000	10000	16000	20000
AC Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac 0.85Un-1.1Un				
Grid Type	Three phase				
Energy Configuration (kWh)	28.66	32.14	43.00	64.28	80.35
Dimension (contain inverter) (W x D x H,mm)	939*475*1070		1019*512*1190	1030*530*1295	1030*530*1565
Weight Appr. (kg) (contain inverter)	375		450	630	750
Rated AC Input/Output Current (A)	7.6/7.2	12.1/11.6	15.2/14.5	27.3/26.1	30.4/29
Battery Operating Voltage (V)	40 ~ 60				
Battery Chemistry	LiFePO4 LFP				
IP Rating of Enclosure	IP21~IP65				
System Certification	UN38.3, IEC62619, CE, CEI 0-21, VDE-AR-N 4105, IEC 62109				
Rated AC Input/Output Active Power (W)	6000	8000	10000	18000	20000
Warranty	10 years 15years				
Inverter Technical Specification					
Max. PV Input Power (W)	12000	16000	20000	32000	40000
Max.PV Input Power (W)	9000	12000	15000	25600	32000
Max. Operating PV Input Current (A)	13+13		26+13	36+36	
Rated PV Input Voltage (Vdc)	550				
Start Up DC Voltage (Vdc)	160				
MPPT Voltage Range (Vdc)	200-650			160-650	
Max. Input Short-Circuit Current (A)	17+17		34+17	54+54	
No.of MPPT Trackers/No.of String Per MPPT Tracker	2/1+1		2/2+1	2/2+2	
Peak Power (off grid)	1.5 time of rated power, 10s				
Power Factor	0.8 leading to 0.8 lagging				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC injection current (mA)	<0.5%In				
Display	LCD				
Operating Temperature Range (°C)	-40~60(>45°C derating)				
Relative Humidity	0% ~ 100% (No Condensing)				
Max AC Input/Output Apparent Power (VA)	6600	8800	11000	17600	22000
Inverter Communication	CAN, RS485, WIFI, ETH				
Safety EMC / Standard	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN, 61000-6-1, IEC/EN 61000-6-2, IEC/EN61000-6-3, IEC/EN 61000-6-4				
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150				
Max. Efficiency	97.6%				
Max. charging/discharging efficiency	95%				
Max Parallel connection sets	10				
Battery Technical Specification					
Battery Module Nominal Voltage (V)	40-60				
Battery Capacity (Ah)	280	314	280	314	314
Battery Energy (kWh)	28.66	32.14	43.00	64.28	80.35
BMS Communication	Self-adaption to BMS				
BMS parallel support connection	Modular design, scalable up to 10 units				
Max Charge & Discharge Current (A)	200				
Operating Temperature Range	Charge: 0 ~ 55°C / Discharge: -30°C ~ 55°C				
Cycle Life	≥8000(@25°C±2°C,0.5C/0.5C,70%EOL)				
Short Circuit Protection	YES				
Over Current Protection	YES				
Over Charge Protection	YES				
Over Temperature Protection	YES				
Cell Over Voltage Protection	YES				
Cell Over Under Protection	YES				
Cell Discharge Protection	YES				



Supporting the establishment, data acquisition, data monitoring, one-stop operation maintenance and after-sales service of all new energy power stations.

Through the Deye smart cloud big data platform, all types of power stations with transparent management which improves the value of power stations comprehensively.

Seamlessly integrated with Deye devices for a smarter, more efficient energy experience.

- ▶ User-friendly interface demystifies complex settings.
- ▶ Clear menu hierarchy, key information at your finger tips.



Contact information:

B SOLAR SYSTEM

info@bsolarsystem.net

+32 492411597

Website address: <https://www.bsolarsystem.com/>

Company address: 4 Rue du Quartz 5580 Rochefort Belgium



B SOLAR SYSTEM /Deye inverter

