

Outdoor Cabinet Type Energy Storage System (with isolating transformer)



C&I energy storage



Rural power shortage



Off-grid island



Nomadic farm



Mine off-grid

Product Features

Simple and flexible

- Integrate PV, PCS and LiFePO4 Battery in one cabinet and integrate EMS smart energy management system
- Wide PV input voltage range, wide battery voltage range
- With grid-connected charging and discharging, off-grid independent inverter function
- Simple structure, small footprint, flexible layout, easy installation, operation and maintenance
- Modular design, power and capacity can be expanded
- Communication is flexible, can accept BMS instructions in real time, communication methods are RS485, CAN

Economical & Intelligent

- The highest efficient power density, max. efficiency is 98.7%
- Intelligent control system, which can be connected to the local monitoring system for unified management and control
- Supporting peak shaving and valley filling, and dynamic expansion of transformers

Safe & Reliable

- Use of high performance DSP, optimized control circuit design, better performance, more stable and safe system
- BYD blade battery cell (LFP) : more safety, longer life cycle, more usable energy
- Ac and DC dual power backup to ensure the control system power supply
- Built-in fire control, temperature control and warning system function for multiple security; IP54 protection grade, stronger environmental adaptability

Outdoor Cabinet Type Energy Storage System

SUVPR

Model	SNE-ESS30KS	SNE-ESS50KS	SNE-ESS100KS	SNE-ESS150KS
AC (on-grid)				
Max output power(KVA)	33KVA	55KVA	110KVA	165KVA
Rated power(KW)	30KW	50KW	100KW	150KW
Rated voltage(V)	400V			
Rated current(A)	43A	72A	144A	216A
Voltage range(V)	320V-460V			
Rated frequency(Hz)	50/60Hz			
Frequency range(Hz)	45-55/55-65Hz			
THDI	<3%			
Power factor	1lagging~1leading			
AC connection	3W+N+PE			
Transformer ratio	100/400	200/400	270/400	270/400
AC (Off Grid)				
Max output power(KVA)	33 KVA	55 KVA	110KVA	165KVA
Rated power(KW)	30 KW	50KW	100KVA	150KVA
Rated voltage(V)	400V			
Rated current(A)	43A	72A	144A	216A
THDU	≤1% linear; or≤5% nonlinear			
Rated frequency(Hz)	50/60Hz			
Overload capacity	110% long - term			
PV input				
Max.PV input voltage(V)	1000V DC			
Max.PV power(kW)	60/120KW			
MPPT voltage range(V)	200V DC -850V DC			
MPPT voltage range@full load (V)	450V DC -850V DC			
Battery				
Battery capacity	53KWH-173KWH		100KWH-300KWH	
Battery type	LiFePO4 battery			
Battery Module	51.2V 130AH BYD blade battery module			
Number of battery racks	1-2			
Battery voltage range(V)	250V -850V	320V -850V	420V-850V	420VDC-850VDC
Max.charging power(KW)	60/120KW			
General data				
Dimension W*D*H(mm)	2100*1400*2352		2500*1400*2352	
Weight(kg)	Customization			
Operation temperature	-30°C to +55°C			
Relative humidity	0 ~ 95% non-condensing			
Ingress protection	IP54			
Noise emission(dB)	< 70dB			
Altitude	4,500m (> 3,000 Derating)			
Fire extinguishing system	Optional			
PCS cooling way	Intelligent Fan			
Battery cooling way	Air conditioning cooling			
Display and communication				
Display	LCD touch-screen			
BMS communication	RS485/CAN			
EMS communication	RS485, TCP/IP			
Certificates	EN 62109-1/-2, EN 62477-1, EN 61000-6-2, EN 61000-6-4, South Africa NRS097-2-1:2017, Pakistan & India IEC61727, IEC62116, IEC 61683			