

GSE SERIES

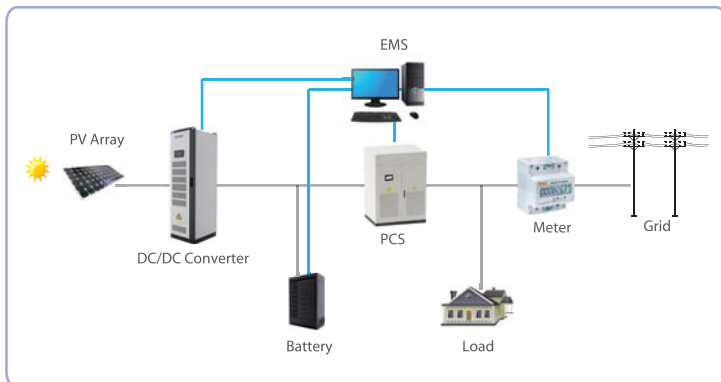
Energy Storage Bidirectional Converter
30KW~630KW



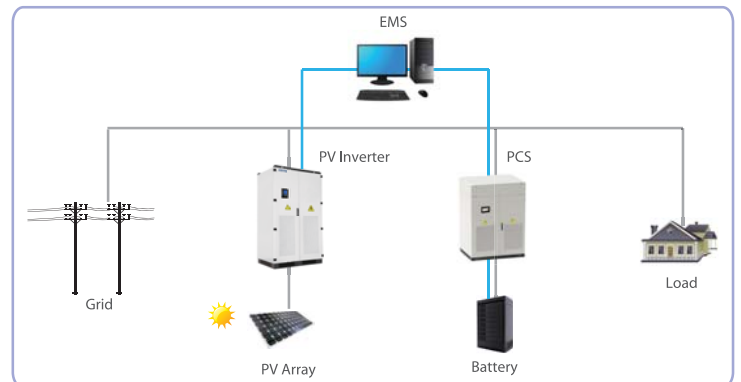
- Flexible Battery Solution (Li-ion or Lead-acid)
- Battery Forecast (Discharge Time, SOC, etc.)
- CAN and RS485 Communication Interface
- Multiple Working Mode
- Support both DC and AC Coupling System

— Power Cable
— Communication Cable

DC Coupling System



AC Coupling System



GSE Series Technical Specifications

MODEL	GSE0030T	GSE0050T	GSE0100T	GSE0150T	GSE0250T	GSE0500T	GSE0500	GSE0630
Input								
Battery voltage range	400~850Vdc						500~850Vdc	
Max. input current	66A	110A	220A	330A	550A	1100A	1100A	1200A
Output								
Rated output power	30KW	50KW	100KW	150KW	250KW	500KW	500KW	630KW
Max. output power	33KVA	55KVA	110KVA	165KVA	275KVA	550KVA	550KVA	690KVA
AC output topology	3W + N + PE						3W + PE	
Rated output voltage	400Vac						315Vac (Transformerless)	
Rated AC output current	43A	72A	144A	216A	361A	722A	916A	1155A
Max. AC output current	48A	80A	160A	240A	400A	800A	1007A	1212A
Grid-tied model								
Grid voltage range	400Vac (- 20% ~ + 15%)						315Vac (- 20% ~ + 15%)	
Grid frequency range	50 / 60Hz (± 2Hz) (adjustable)							
THDi	< 3%							
Power factor (cosΦ)	- 1 ~ + 1							
ZVRT	Yes							
Off-grid model								
Output voltage accuracy	1%							
Output voltage distortion	< 2% (linear load)							
System features								
Max. efficiency	> 96.2%	> 96.5%	> 97%	> 97.2%	> 97.3%	> 97.5%	> 98.3%	> 98.5%
Charge-discharge switching time	< 40ms							
IP rating	IP21							
Relative humidity	< 95% (non-condensing)							
Operating temperature	- 30°C ~ 50°C							
Altitude	Above 3000m derating							
User interface	Touch Screen							
Communication interface	RS485, external Ethernet (optional)							
BMS	Yes							
Dimension W×D×H (mm)	700×700×1850		800×935×2000		1200×935×2000	1600×935×2000	1200×800×2000	
Weight (Kg)	390	420	860	930	1350	2770	1100	1300