

ST68KWH-50HV

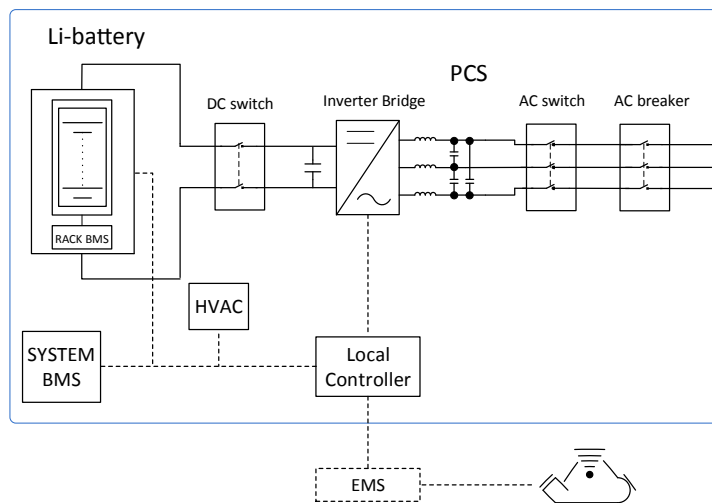
Storage System



SYSTEM FEATURES

- Highly integrated energy storage system for easy transportation and O&M
- High efficiency system integrated with reliable lithium battery
- Integrated local controller to enable unified system communication
- Advanced PCS technology for easy capacity expansion

CIRCUIT DIAGRAM



System Type	ST68KWH-50HV
Battery Data	
Cell type	Samsung SDI M2F, 3.68V/94Ah
Configuration of system	198S1P
Battery capacity (BOL)	68 kWh
Battery voltage range	633 ~ 822 V
BMS communication interfaces	RS485, Ethernet
BMS communication protocols	Modbus RTU, Modbus TCP
AC Data	
Nominal AC power	50 kVA
Max. AC power	55 kVA
Max.THDr of current	< 3 % (at nominal power)
DC component	< 0.5 % (at nominal power)
Nominal grid voltage	400 V
Grid voltage range	360 ~ 440 V
Power factor	> 0.99 (at nominal power)
Adjustable power factor	1.0 leading ~ 1.0 lagging
Nominal grid frequency	50 Hz
Grid frequency range	45 ~ 55 Hz
Isolation method	Transformerless
Nominal output voltage of off-grid	400 V
Max.THDr of off-grid output voltage	< 3 % (linear load)
General Data	
Dimensions (W * H * D)	880 * 1,950 * 1,220 mm / 34.6" * 76.8" * 48.0"
Weight (with / without battery)	1.0 T / 0.5 T 2,205 lbs / 1,102 lbs
Degree of protection	IP54 / NEMA 3R
Operating temperature range	-30 to 50 °C / -22 to 122 °F
Relative humidity	0 ~ 95 % (non-condensing)
Max. working altitude	3,000 m / 9,842 ft
Cooling concept of battery chamber	Heating, Ventilation and Air Conditioning
Cooling concept of PCS chamber	Temperature controlled forced air cooling
Communication interfaces	RS485, Ethernet
Communication protocols	Modbus RTU, Modbus TCP
Certificates	TÜV

