



HITEK
SOLAR
Empowering your world

Off-grid Energy Storage System

Hitek Solar - HSG Series is a smart energy storage solution for your household

Hitek Solar HSG Series is a solution which stores solar energy into a lithium-ion battery and then releases it when you need to use it.

All the components (such as the battery, off-grid inverter, BMS and solar charger) are integrated into the kit. Built-in handles and casters make the product portable and easy to move.



All in One
Fully Integrated Solution



Multiple Charging Options
Solar PV or Grid input available



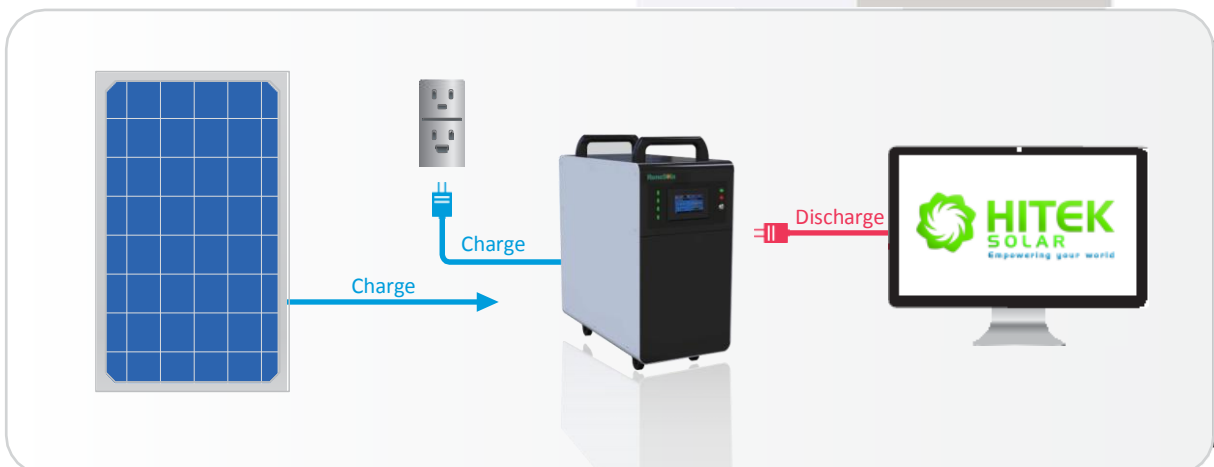
LiFePO4 Battery to give long life cycle, environmentally friendly, safe and no maintenance necessary



LED / LCD Touch Display
Easy to Read Information
Easy to Operate



System Connection





System working mode

| | |
|-----------------------------------|---|
| PV Priority WorkingMode | In order to make maximum usage of solar energy,the loads are powered by solar energy and battery prior to grid |
| Time shifting working mode | The battery is charged according to the preset time period , and battery Discharge to provide energy to loads during un-preset period |
| UPS working mode | Grid provides energy to loads directly and charge the battery until full. When the grid is unavailable, the system switch to battery to power the loads |

Product series parameters

| Model | | 2.4kW HSG |
|---------------|-------------------------------|---|
| PV Input | Input Voltage Range | 60V DC~90V DC |
| | Max Input Current | 60A DC |
| | Max Efficiency | 98% |
| | Recommended PV Power | 2500W |
| Grid Input | Input Voltage Range | 165V~275V(AC)/85V~135V(AC) |
| | Input Frequency Range | 45Hz~65Hz |
| | Short Circuit Protection | Circuit Breaker |
| System Output | Output Voltage/Frequency | 220V/110V(AC) 50Hz/60Hz |
| | Output Power | 2000W |
| | Power Factor | >0.8 (>30% Load) |
| | THD | <5% |
| | Grid Switch To Battery | <20ms |
| | Output Efficiency | >84.5% |
| | Overload Protection | 110% output overload alarm 4 minutes at 125% overload 1 minute at 150% overload |
| Battery | Battery Type | LiFePO4 ion Battery |
| | Battery Voltage Range | 48V~57V |
| | Battery Capacity | 50Ah |
| | Equalization Current | 1A |
| | Voltage Acquisition Precision | 2mV |
| | Protection | Over charge, Over discharge, Over current, Over temperature |
| Others | Working Temperature | 0~40°C |
| | Working Humidity | 10%~90% (no condensation) |
| | IP Grade | IP20 |
| | Dimension | 636(D) * 550(H) * 300(W) mm |
| | Weight | about 65 Kg |
| Warranty | | 1 years for system, 2 years for battery. |