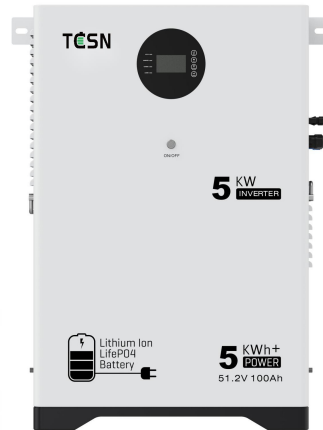



Off-grid power-frequency Integrated Machine





Introduce


Vertical Energy Storage System is a complete battery system for home energystorage. The system adopts modular design, stacked structure, through the parallel battery modules to increase the capacity of the system, achieving plug and play. The system is safe and reliable, can be applied to home storage, industrial, and commercial energy storage.

 **Long Lifespan**
15 years of design service life

 **Modular**
Modular design is simple and fast

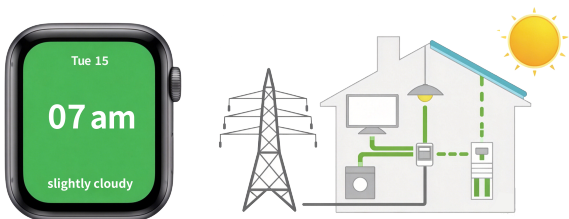
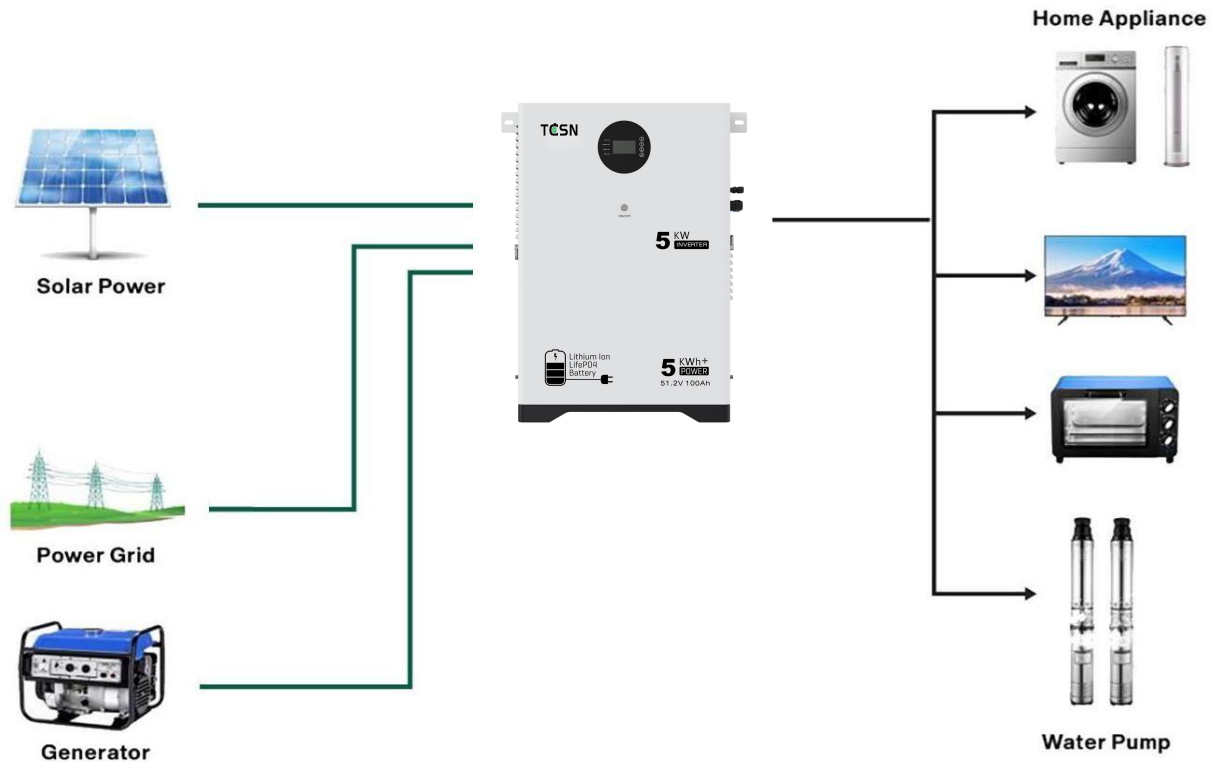
 **Intelligentize**
Efficient operation and maintenance Automatic and intelligent management

 **Multi parallel use**
Off grid inverter, battery support parallel

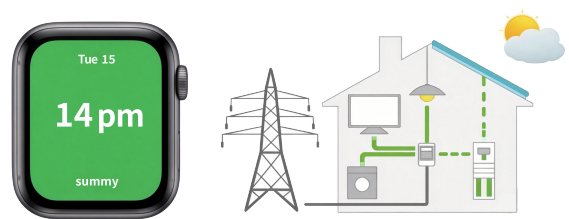
 **Visualization**
Visual display interface, easy to maintain

 **Multifunction**
Support Wifi wireless network

System Management Diagram



Solar energy is best used to power household appliances, with any excess energy stored in the battery.



During the day, when there is insufficient light, the energy stored in the battery will be used to supplement the power supply.



At night, the energy stored in the battery powers household appliances.



When the stored energy in the battery is depleted, the public grid supplies power to household appliances.

Specifications

Model	Merak H-HESS T5-5
AC Input	
Rate Input Voltage(VAC)	208/220/230/240;L+N+PE
Voltage Range(VAC)	160~260
Frequency(Hz)	50Hz/60Hz (Auto detection)
AC Output	
Rated Capacity(kW)	5
Voltage Regulation	≤5%
Rate Voltage(VAC)	220/230/240;L+N+PE
Frequency	50Hz±0.3Hz/60Hz±0.3Hz
Transfer Time(ms)	10ms(Typical)
Maximum Efficiency	>90%
Charger(PV/AC)	
Solar Charger Type	MPPT
Max PV input power(kW)	6
MPPT Maximum Efficiency	>98%
Max PV Open Circuit Voltage(VDC)	200
Max PV Charge Current(A)	120
Max AC Charge Current(A)	50
Battery	
Normal Voltage(VDC)	51.2
Capacity(Ah)	100
Energy(Wh)	5120
Charge Voltage(VDC)	54.4~55.2V
Overcharge Protection(VDC)	58.4V
Battery type	LFP
Interface	
HMI	LCD
Monitoring	WiFi(Optional)
General Data	
Ingress Protection	IP20
Operating Temperature	0~50°C
Relative Humidity	20%~95%(Non-condensing)
Storage Temperature	-5°C~35°C
Net Weight(kg)	81.5
Dimensions/W*D*H(mm)	600×200×900
Max.Operating Altitude	4000m(Derating above 1000m)
Noise Emission	≤50dB