

Vertical Energy Storage System

TAI300-5K-PO0

🛡️ Long life and safety

Vertical industry integration ensures more than 6000 cycles with 80% DoD.

🔧 Easy to install and use

Integrated inverter design, easy to use and quick to install. Small size, minimizing installation time and cost. Compact and stylish design suitable for your sweet home environment.

⚙️ Multiple working modes

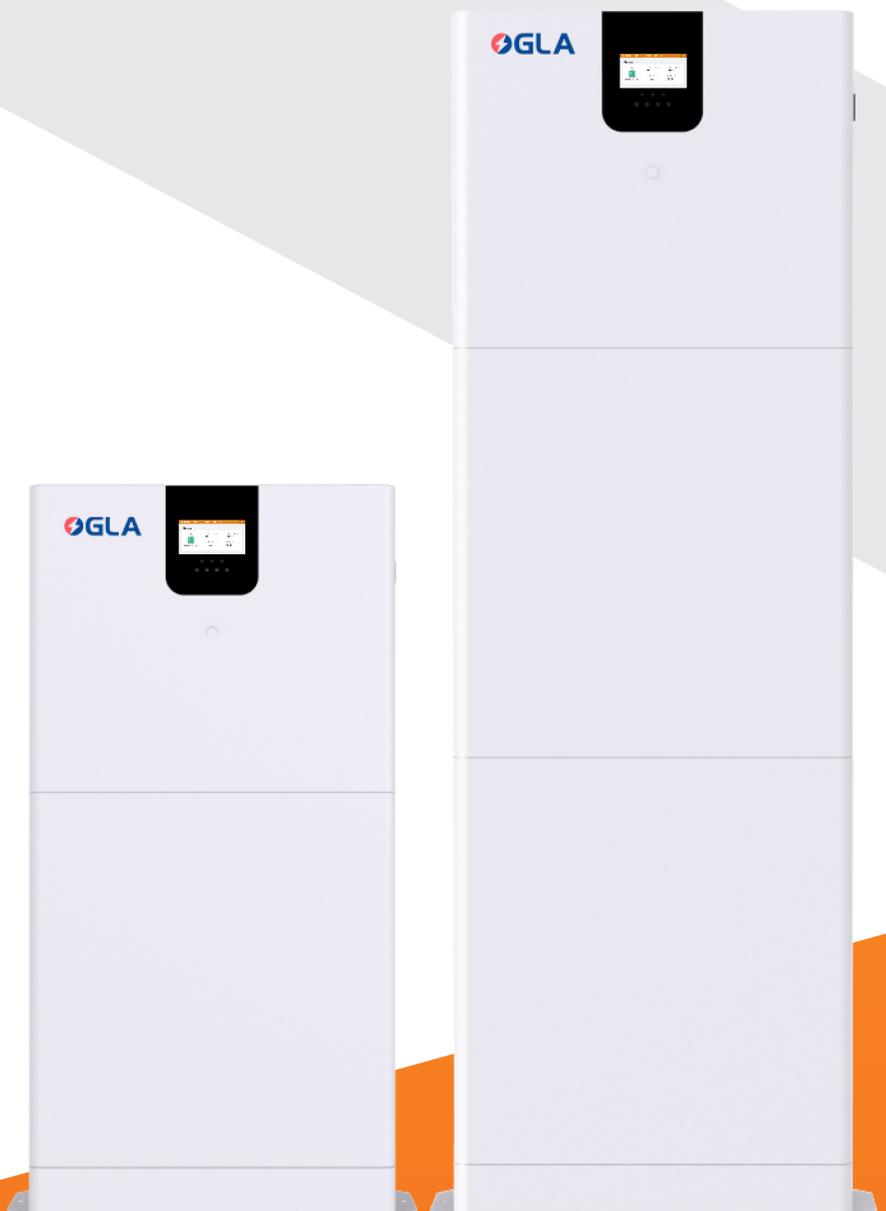
The inverter has a variety of working modes. Whether it is used for main power supply in the area without electricity or backup power supply in the area with unstable power to deal with sudden power failure, the system can respond flexibly.

⚡ Fast and flexible charging

A variety of charging methods, which can be charged with photovoltaic or commercial power, or both at the same time.

🏠 Scalability

You can use 4 batteries in parallel at the same time, and can provide a maximum of 20kwh for your use.



Application scenario >>>



Product parameters

BATTERY TECHNICAL SPECIFICATION				
Battery model	TBA300-5K-PA0			
Number of batteries	1	2	3	4
Battery Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Battery Capacity	100AH	200AH	300AH	400AH
Weight	80kg	130kg	190kg	250kg
Dimension L× D× H	1190×600×184	1800×600×184	1800×600×184 690×600×184	1800×600×184 1300×600×184
Battery Type	LiFePO4			
Battery Rated Voltage	51.2V			
Battery Working Voltage Range	44.8 ~ 57.6V			
Maximum Charging Current	100A			
Maximum Discharging Current	100A			
DOD	80%			
Parallel Quantity	4			
Designed Life-span	6000			
INVERTER TECHNICAL SPECIFICATION				
Inverter model	TAI300-5K-PO0			
PV CHARGE				
Solar Charge Type	MPPT			
Maximum Output Power	5000W			
PV Charging Current Range	0~80A			
PV Operating Voltage Range	120~500V			
MPPT Voltage Range	120~450V			
AC CHARGE				
Maximum Charge Power	2100W			
AC Charging Current Range	0~40A			
Rated Input Voltage	110/120Vac			
Input Voltage Range	90~140Vac			
AC OUTPUT				
Rated Output Power	5000W			
Maximum Output Current	50A			
Frequency	60Hz			
Overload Current	55A			
BATTERY INVERTER OUTPUT				
Rated Output Power	5000W			
Maximum Peak Power	10KVA			
Power Factor	1			
Rated Output Voltage (Vac)	120Vac			
Frequency	60Hz			
Auto Switch Period	< 15ms			
THD	< 3%			
GENERAL DATA				
Communication	RS485/CAN/WIFI			
Storage time / temperature	6 months @25°C;3 months @35°C;1 months @45°C;			
Charging temperature range	0~45°C			
Discharging temperature range	-10~45°C			
Operation Humidity	5% ~ 85%			
Nominal Operation Altitude	< 2000m			
Cooling Mode	Force-Air Cooling			
Noise	60dB(A)			
Ingress Protection Rating	IP20			
Recommended Operation Environment	Indoor			
Installation Method	Vertical			
Certification	UN38.3,MSDS,EN55032,EN55024,EN61000-3-2,EN61000-3-3			