

Single Phase Off-grid Inverter



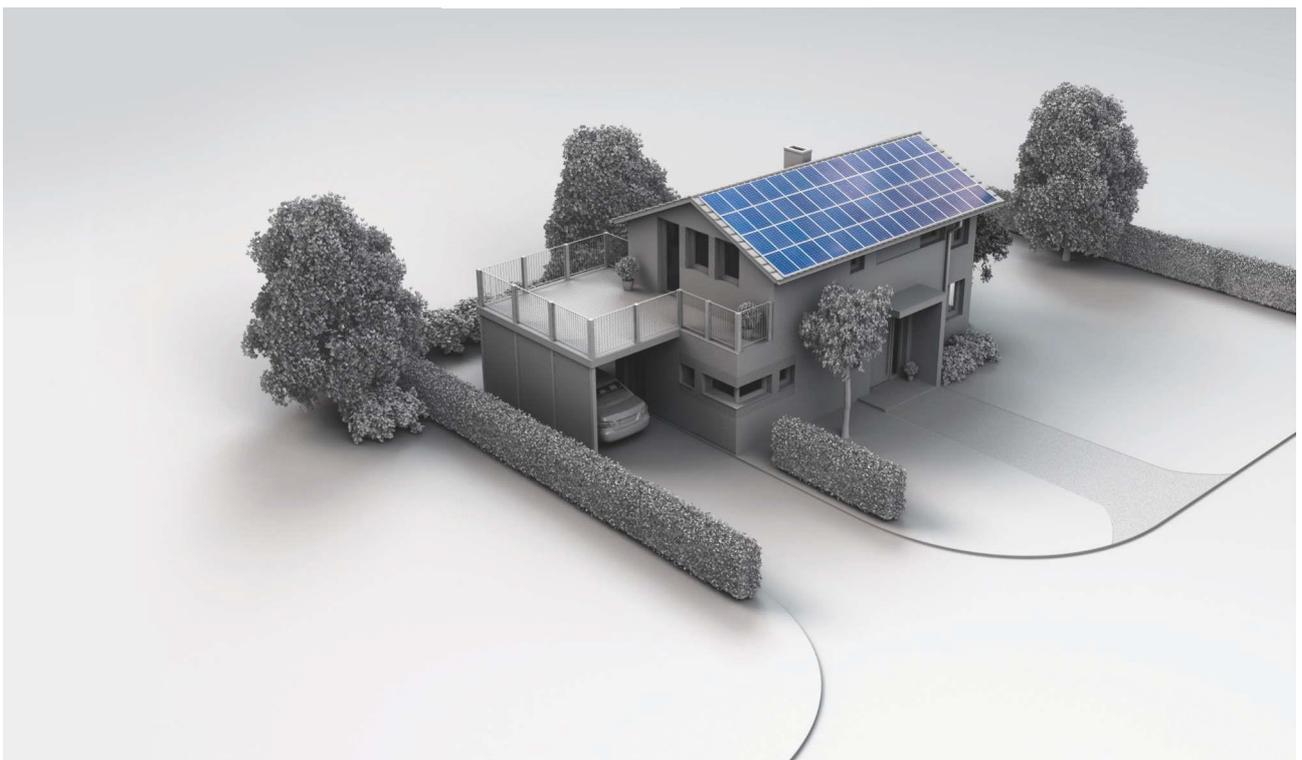
BRAVO-5K-island

PV6000-48

01 System Overview

Residential energy storage system is similar to the micro energy storage power station. Its operation is not affected by the city power grid. During off-peak times, the battery pack in the system can charge itself for use during peak times or power outages. The system adopts the integrated microgrid design idea, which can operate in both off-grid and grid-connected modes, and can realize seamless switching of operation modes, greatly improving the reliability of power supply. In addition, the system is equipped with a flexible and efficient management system, which can adjust operation strategies according to the power grid, load, energy storage and electricity price, so as to optimize system operation and maximize user benefits.

Typical Configuration



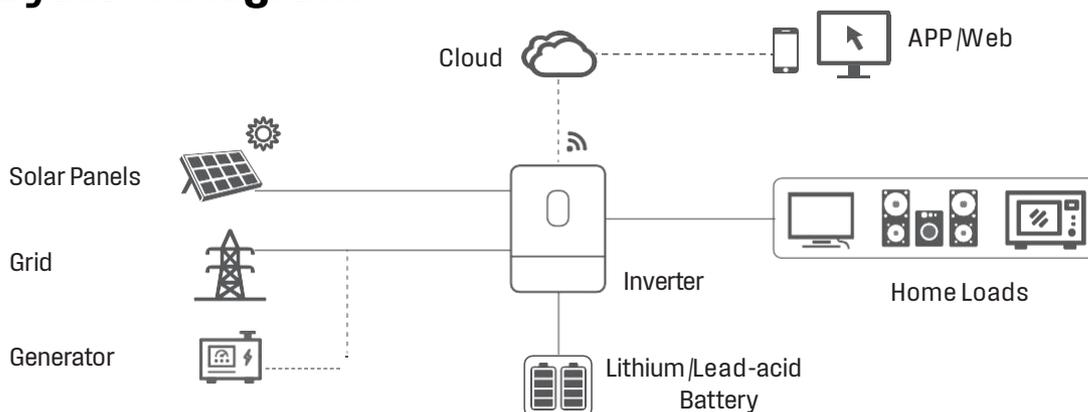
02 Single Phase Off-grid Inverter



**BRAVO-5K-island
PV6000-48**

-  Built-in 80A Solar Charger
-  Wide MPPT Range 120-500V
-  Workable with Generator
- DUAL** Dual AC Output
-  9 Inverters in Parallel
- BMS** Support Lithium/Lead-acid Battery
-  Lithium Battery Activation
-  Detachable Dust Cover
-  WiFi Monitoring
-  Feed-in to Grid

System Diagram



03 Technical Parameters

Model	BRAVO-5K-island / PV6000-48
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~264±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	5
Peak Power (kVA)	10
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (Typical Value,ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	93%@48VDC
Parallel Quantity	9
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	18A / 6000W
MPPT Range @ Operating Voltage (VDC)	120~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	80
Max AC Charge Current (A)	80
Max. Charge Current (PV + AC) (A)	80
Battery	
Normal Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / RS232 / USB / Dry Contact
Monitoring	Wi-Fi (Optional)
General Data	
Ingress Protection	IP20
Operating Temperature	-10°C~ 50°C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15°C~ 60°C
Net Weight (kg)	9
Dimensions (W*H*D)	510*306*115mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)

