



IVB series

Single Phase Hybrid Solar Storage Inverter

- ✓ Compatible with 48V storage batteries
- ✓ 2 efficient, independent MPPT ports
- ✓ Separate generator port
- ✓ Support AC-coupling
- ✓ Support time-slot function for peak-valley
- ✓ IP65 waterproof protection degree

MODEL	IVB-4812SP
INVERTER OUTPUT	
Rated Output Power	12,000W
Max.Peak Power	24,000VA
Rated Output Voltage	230Vac ±5% (Single-Phase L+N+PE)
Load Capacity of Motors	6HP
Rated AC Frequency	50/60Hz ±0.3
Switch Time	10ms(typical)
Parallel Capacity	1 ~ 6 Units (More than 3 units in parallel can form a three-phase output)
AC OUTPUT (GRID)	
Rated Output Power	12,000W
Max. Output Power	12,000VA
Rated Output Current	52.2A
Max. Output Current	54.4A
Power Factor	0.8 leading/0.8 lagging
THD	<3%
BATTERY	
Battery Type	Lead-acid / Li-ion / User defined
Rated Battery Voltage	48Vdc
Voltage Range	40-60Vdc
Max.MPPT Charging Current	200A
Max.Mains/Generator Charging Current	120A
Max.Hybrid Charging Current	200A
PV INPUT	
Num. of MPPT Trackers	2
Max.PV Array Power	6,600W+6,600W
Max.Input Current	22A/22A
Max.Voltage of Open Circuit	500Vdc+500Vdc
MPPT Voltage Range	120-450Vdc
MAINS/GENERATOR INPUT	
Input Voltage Range	UPS mode: 170 ~ 280Vac; APL mode: 90 ~ 280Vac
Frequency Range	50/60Hz
Bypass Overload Current	63A
EFFICIENCY	
MPPT Tracking Efficiency	99.9%
Max. Efficiency	97.5%
European Efficiency	97%
GENERAL	
Dimension	670*440*220mm
Weight	37kg
Protection Degree	IP65
Operating Temperature Range	-25 ~ 60°C, >45°C Derate
Noise	< 60dB
Cooling Method	Fan Cooling
COMMUNICATION	
Embedded Interfaces	RS485/CAN/USB/Dry contact
External Modules (Optional)	Wi-Fi / GPRS