

PVS-AT5k~12k-G2

Output Power:
5/6/8/10/12kW

Name:
Three-Phase Hybrid Inverter

Features

◎ Easy-to-install

- Quick & easy-to-install with basic tools.
- Battery and smart meter interface.
- Compact Wall-Mounted design.

◎ High reliability

- Supports 150% capacity ratio.
- Supports 100% three-phase unbalanced AC output.
- Real uninterruptible power supply,switching time＜10 ms.
- IP66 rated design for outdoor use.

◎ User-friendly

- Quick setup and commissioning with PVSTAR Apps.
- Support a variety of application scenarios and operating modes,including depth of discharge,time of use and power settings.
- The maximum input current of 20A is perfectly suitable for high-power and bifacial modules such as 210/182.

Certifications



Model	PVS-AT5k-G2	PVS-AT6k-G2	PVS-AT8k-G2	PVS-AT10k-G2	PVS-AT12k-G2
DC input					
Recommended Max. PV input power	7500Wp	9000Wp	12000Wp	15000Wp	18000Wp
Max. PV input voltage	1100V				
MPPT voltage range/Rated input voltage	150V~950V/630V		200V~950V/630V		
Min. input voltage/Start-up voltage	60V/180V				
No. of MPPTs/No. of PV strings per MPPT	2/1				
Max. input current per MPPT	20A				
Max. short-circuit current per MPPT	30A				
Battery input					
Battery voltage range	120V~600V				
Max. charging/discharging power	5000W	6000W	8000W	10000W	12000W
Max. charging/discharging current	30A				
Compatible Batter	PVS-HB Series				
Battery type	LiFePO4				
AC output					
Voltage range/Rated AC voltage	270V~480V,3L/N/PE,220/380V;230/400V;240/415V				
Rated grid frequency	50Hz/60Hz				
Grid frequency range	45~55Hz/55~65Hz				
Rated apparent power	5000VA	6000VA	8000VA	10000VA	12000VA
Max. apparent power	5000VA	6000VA	8000VA	10000VA	12000VA
Rated grid output current(@400V)	7.3A	8.7A	11.6A	14.5A	17.4A
Max. grid output current(@400V)	8.0A	9.6A	12.8A	16.0A	19.2A
THDi(@Rated power)	＜3%				
AC intput					
Rated grid voltage	3L/N/PE,220/380V;230/400V;240/415V				
Rated grid frequency	50Hz/60Hz				
Max. AC input power	10000W	12000W	16000W	20000W	24000W
Max. AC input current	14.5A	17.4A	23.2A	29.0A	34.8A
AC output(EPS)					
Rated output voltage	3L/N/PE,220/380V;230/400V;240/415V				
Rated output frequency	50Hz/60Hz				
Rated apparent power	5000VA	6000VA	8000VA	10000VA	12000VA
Peak output apparent power, time	2 times the rated power,10S				
Rated current(@400V)	7.3A	8.7A	11.6A	14.5A	17.4A
Switching time	＜10ms				
THDv(@ Line power)	2%				
Efficiency					
European efficiency/Max. efficiency	97.2%/98.0%	97.5%/98.2%	97.9%/98.4%		
MPPT efficiency	99.9%				
Protection					
Surge protection(Type II,according to EN/IEC 61643-11)	●				
Insulation resistance detection	●				
PV input reverse polarity protection	●				
Battery input reverse polarity protection	●				
Ground fault monitoring	●				
Residual current detection	●				
AC short circuit protection	●				
Anti-islanding Protection	●				
General data					
Power factor/Adjustable range	1 default(adjustable+/-0.8)				
Dimensions(W/H/D)	545mm/465mm/205mm				
Weight	24.5kg				
Operating temperature range	-25℃~+60℃				
Cooling mode	Natural				
Degree of protection(According to IEC 60592)	IP66				
Max. permissible value for relative humidity	100%				
Max. operating altitude	4000m				
Features					
User interface	LED&APP				
Communication with BMS	CAN				
Communication with smart meter	RS485				
Cloud platform monitoring mode	Dongle:WiFi(2.4 GHz)/ LAN(100 Mbps)				
Dry contact output/quantity	●/2				
Dry contact input/quantity	●/4				
Integrated power control/Zero export control	●/●				
Certifications	IEC 62109-1/-2, IEC 61000-X[1], EN 50549-1, VDE-AR-N 4105, CEI 0-21, PL EN50549-1+RfG, NA/EEA-NE7-CH 2022, VFR 2019 & VDE 0126-1-1, IEC 61727, IEC 62116, IEC 61683				

● **Standard/**○ **Matching/-Not Available**

*All specifications are subject to change without notice.
*For more info:Please contact us by Email or our Website.

*1 "X"stands for 2-2, 3-2, 3-3, 3-11, 3-12, 6-1, 6-2, 6-3, 6-4