



Inverter

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PHYB 3P SERIES IP65 HYBRID SOLAR INVERTER

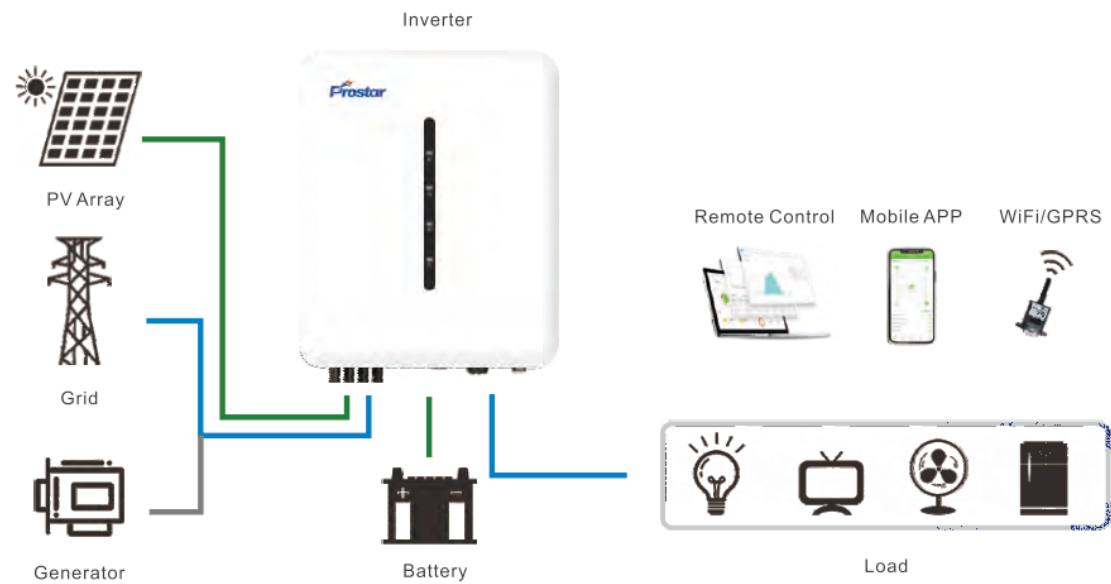
Three Phase 5kW-10kW



Performance Characteristics

- 1.Flexible application: 150-600V wide battery voltage range.
- 2.Wide PV input range: 180-1000Vdc.
- 3.DC 15A/ string, matched with ultra, high PV modules.
- 4.Fully compatible with high load appliances such as: air conditioning unit, heat pumps, dryers.
- 5.Build-in smart modes including self-consume, VPP, remote control, etc., to maximize users' financial savings.
- 6.Safety and Reliability: Integrated AFC, effective arcing detection.
- 7.Effortless installation: Full-house backup, no alteration on consumer units, plug-in terminals.
- 8.UPS mode: Seamless transition to backup mode to assure an uninterrupted power supply.

Application Diagram



Technical Specifications

MODEL	PHYB5K-3P	PHYB6K-3P	PHYB8K-3P	PHYB10K-3P
Input (DC)				
Recommend max.PV input power	7500 Wp	9000 Wp	12000 Wp	15000 Wp
Max. PV input voltage	1000V			
Start-up input voltage	180V	250V		
Rated PV input voltage	600V			
MPPT voltage range	150-950V	200-950V		
No.of independent MPPT inputs	2			
Default No. of PV strings per MPPT	1/1			1/2
Max. input current	32A(16A/16A)			48A(16A/32A)
Max. input short-circuit current	40A(20A/20A)			60A(20A/40A)
Input/Output (AC)				
Max. AC input power from grid	12500 VA	15000 VA	18600 VA	20600 VA
Rated AC output power	5000 W	6000 W	8000 W	10000W
Max. AC output power	5000 VA	6000 VA	8000 VA	10000 VA
Rated AC voltage/ Frequency	3P+N+PE 380V/400V/415V 50Hz			
AC voltage range	270V-480V			
Grid frequency range	45-55Hz			
Harmonic (THD) at rated burden	<3%			
Power factor at rated power	>0.99			
Adjustable power factor	adj.0.8.overexcited/leading to 0.8 underexcited/lagging			
Efficiency				
Max. efficiency	98.00%	98.20%	98.40%	98.40%
European efficiency	97.20%	97.50%	97.90%	97.90%
Protection & Function				
Protection	LVRT/ DC reverse polarity/ AC short circuit/ Leakage current/ Battery input reverse polarity			
Surge Protection	DC type II /AC type II			
DC switch [PV / DC fuse (battery)]	Yes			
Battery Data				
Battery Type	Li-ion battery			
Battery voltage	150-600V			
Max.Charge/discharge current.	30 A			
Max. charge power	7500 W	9000 W	10600W	10600W
Max.discharge power	6000 W	7200 W	10600W	10600W
General Data				
Dimensions(WxHxD)	450x555x186mm			
Weight	27KG			
Degree of protection	IP65			
Operating temperature	-25°C~60°C			
Relative humidity range	0 ~ 100%			
Max. operating altitude	4000m			
Display	LED indicator			
Communication	RS485/CAN/WLAN/ DIx1/DO x1/DRM			
Backup Data				
Rated voltage/ Frequency	220V/230V/240V(±2%)/50Hz/60Hz(±0.5%)			
Total output TH DV for liner load	less than 2%			
Switch time to emergency model	less than 10ms			
Rated output power	5000W/5000VA	6000W/ 6000VA	8000W/8000VA	10000W/10000VA
Peak output power	6000VA 5min/10000VA, 10s	7200VA5min/10000VA, 10s	9600 VA, 5min	12000 VA,5min