

# THREE PHASE HYBRID INVERTER

## HB030/40/500G-TPS-EU-A

### FEATURES

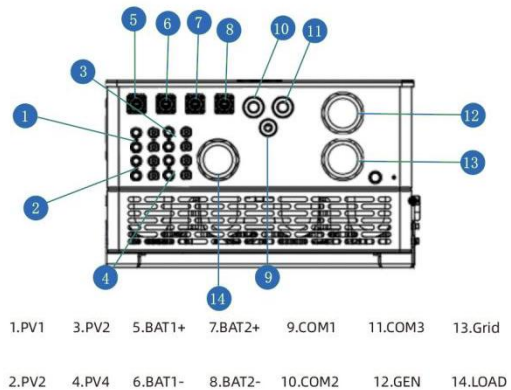
- 100% THREE-PHASE UNBALANCED OUTPUT, WITH EACH PHASE CAPABLE OF DELIVERING UP TO 50% OF THE RATED POWER
- AC COUPLING TO RETROFIT EXISTING SOLAR SYSTEM
- MAX. 10 PCS PARALLEL FOR ON-GRID AND OFF-GRID
- SUPPORT MULTIPLE BATTERIES PARALLEL
- HIGH VOLTAGE BATTERY, HIGHER EFFICIENCY
- 6 TIME PERIODS FOR BATTERY CHARGING/DISCHARGING
- SUPPORT STORING ENERGY FROM DIESEL GENERATOR



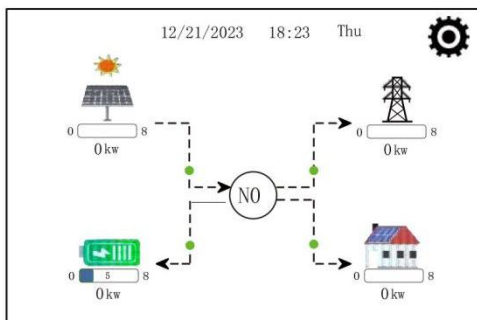
### CERTIFICATIONS



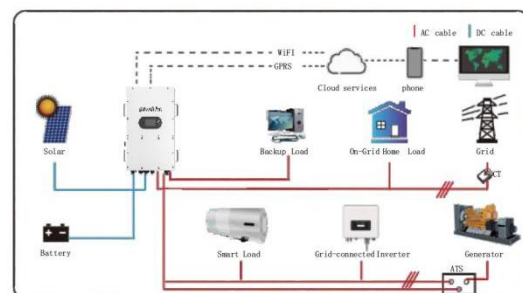
### PRODUCT CHARACTERISTICS



### LCD DISPLAY ICONS



### BASIC SYSTEM ARCHITECTURE



Model	HB0300G-TPS-EU-A	HB0400G-TPS-EU-A	HB0500G-TPS-EU-A
<b>PV String Input</b>			
Max. DC Input Power (W)	39000	52000	65000
Max. DC Input Voltage (V)	1000		
Start-up Voltage (V)	180		
MPPT Range (V)	150-850		
Full Load MPPT Voltage Range (V)	360-850	360-850	450-850
Rated DC Input Voltage (V)	600		
PV Input Current (A)	36+36+36	36+36+36+36	
Max. PV Isc (A)	55+55+55	55+55+55+55	
No.of MPPT Trackers	3	4	
No.of Strings per MPPT Tracker	2+2+2	2+2+2+2	
<b>AC Output</b>			
Rated AC Output Power (W)	30000	40000	50000
Max. AC Output Power (W)	33000	44000	55000
AC Output Rated Current (A)	45.6	60.8	76.0
Max. AC Output Current (A)	50.2	66.9	83.6
Max. Three-phase Unbalanced Output Current (A)	60	70	83.3
Max. Continuous AC Passthrough (A)	200		
Peak Power (Off Grid)	1.5 times of rated power, 10 S		
Generator Input/Smart Load/AC Couple Current (A)	45.5 / 200 / 45.5	60.7 / 200 / 60.7	75.8 / 200 / 75.8
Power Factor	0.8 leading - 0.8 lagging		
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380Vac 230/400Vac		
Grid Type	Three Phase		
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)		
DC Current Injection	<0.5% In		
<b>Battery</b>			
Battery Type	Lithium-ion		
Battery Voltage Range (V)	160-800		
Max. Charging Current (A)	50+50		
Max. Discharging Current (A)	50+50		
Number of Battery Input	2		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
<b>Efficiency</b>			
Max. efficiency	97.6%		
Euro efficiency	97.0%		
MPPT efficiency	99.9%		
<b>Protection</b>			
Anti-islanding Protection	Yes		
PV String Input Reverse Polarity Protection	Yes		
Insulation Resistor Detection	Yes		
Residual Current Monitoring Unit	Yes		
Output Over Current Protection	Yes		
Output Shorted Protection	Yes		
Surge Protection	Yes		
Arc Fault Circuit Interruption (AFCI optional)	Yes		
Over Voltage Category	DC Type II/AC Type III		
<b>Certifications and Standards</b>			
Grid Regulation	IEC61727/62116,EN50549-1		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
<b>General Data</b>			
Operating Temperature Range (°C)	-40-60°C, > 45°C Derating		
Cooling	Smart Cooling		
Noise (dB)	≤65 dB		
Communication with BMS	CAN		
Monitoring mode	WIFI, APP		
Weight (kg)	80		
Size (WxHxD mm)	527x894x294 (Excluding Connectors and Brackets)		
Ingress Protection	IP65		
Installation Style	Wall-mounted		
Warranty	5 Years (10 Years Optional)		

## Suzhou Preta Intelligence and Technology Co.,Ltd

No..55 Shangxiang Road, Huaqiao Corporation Head Quarter Centre,

Kunshan City, Suzhou City, China

Tel: 0512-36684019

Mail: info@pretapower.com

Web: www.pretapower.com

