PAM POWER

POM HB 66 SERIES

OUTDOOR HYBRID INVERTER

WALL MOUNTED TRANSFORMER FREE

Range : 25 KW to 50 KW (THREE PHASE)

IP66



- 50A — Maximum Charging & Discharging Current
- 18A — Extended MPPT Current
- Diesel Genset Compatible
- 10ms — Best in Class Switching time
- Fanless Natural Heat Dissipation
- Parallel Upto 16 Units

TECHNICAL SPECIFICATION

MODEL	POM 2501 HB 66 3P	POM 3001 HB 66 3P	POM 3301 HB 66 3P	POM 4001 HB 66 3P	POM 5001 HB 66 3P
INPUT DC (PV)					
Recommended Max.PV Power	37.5KW	45KW	49.5KW	52KW	65KW
Max. Input Voltage	1000V				
Rated Input Voltage	620V				
MPPT Voltage Range	160-800V				
Continuous Input Current	32A/32A			36A/36A	
MPPT Number / Max. Input Strings Number	4/2				
BATTERIES					
Input / Output DC (Battery)	Lead-Acid/Li-ion				
Battery Voltage Range	160-800V				
Max. Charge/Discharge Power	25KW	30KW	33KW	40KW	50KW
Max. Charge/Discharge Current	50A				
Charging curve	Three-Paragraph				
AC (OFF GRID)					
Max. Output Power	25KW	30KW	33KW	40KW	50KW
Switch Time of Grid-Connected and Off-Grid	<10ms				
THDI	< 2% (Linear Load)				
AC (ON GRID)					
Rated Output Power	25KW	30KW	33KW	40KW	50KW
Rated Output Current	36.3A	43.5A	49.5A	58A	72.5A
Rated Grid Output Voltage	3L/N/PE, 380V/400V				
Rated Grid Output Frequency	50HZ/60HZ				
Max. Output Current	39.9A	47.9A	52.6A	63.8A	79.7A
Max. Input Current	39.9A	47.9A	52.6A	63.8A	79.7A
Power Factor	> 0.99(0.8 Leading 0.8 Lagging)				
THDI	<3% (Full Load)				
EFFICIENCY					
Max. Efficiency	>98.2%				
STANDARD					
Safety	IEC62109-1/-2				
EMC	EN61000-6-1/EN61000-6-3				
BASIC PARAMETERS					
Dimensions (W*H*D)	640mmx490mmx290mm			940mmx595mmx340mm	
Cooling Concept	Natural				
Weight	48kg			55 Kg	
Degree Of Protection	IP66				
Operating Ambient Temperature	-25°C-60°C (>45 derating)				
Max. Operation Altitude	3000m				
Communication Mode	RS485/WIFI/GPRS/LAN				

POM POWER

POM HB 66 SERIES

OUTDOOR HYBRID INVERTER

WALL MOUNTED TRANSFORMER FREE

Range : 60 KW to 125 KW (THREE PHASE)

IP66



- 50A — Maximum Charging & Discharging Current
- 18A — Extended MPPT Current
- Diesel Genset Compatible
- 10ms — Best in Class Switching time
- Fanless Natural Heat Dissipation
- Parallel Upto 16 Units

TECHNICAL SPECIFICATION

MODEL	POM 6001 HB 66 3P	POM 12001 HB 66 3P
INPUT DC (PV)		
Max. PV Power	100KW	250KW
Max. Input Voltage	1000V	
Start-Up Voltage	180V	
MPPT Voltage Range	150~950V	
Max. Input Current	4*42A	10*42A
Max.Input Short-Circuit Current	4*60A	10*60A
MPPT Number/ Input Strings Number	4/8	10/20
BATTERIES		
Battery Type	LFP	LFP
Battery Voltage Range	168~950V	224~950V
Battery Starting Voltage	150~950V	200V
Max.Charge/Discharge Current	100A*2	160A*2
Number of Battery Ports	2	2
AC OUTPUT (ON GRID)		
Rated Output Power	60KW	125KW
Max. Apparent Output Power	66KVA	137KVA
Rated Grid Voltage	3/N/PE,230V/400V	
Rated Grid Frequency	50/60Hz	
Rated Grid Output Current	87A	180A
Power Factor	>0.99	
THDi	<3%	
AC INPUT (OFF GRID)		
Max. Input Current	174A	253A
Rated Input Voltage	3/N/PE, 230V/400V, 50/60Hz	
AC OUTPUT (OFF GRID)		
Rated Output Power	60KW	125KW
Overload Capacity	110% Normal Operation; 120% For 1 Minute; 150% For 10 Seconds	
Rated Output Voltage	3/N/PE, 230V/400V, 50/60Hz	
Load Unbalance	100%	
Backup Switching Time	<10ms	
THDv	<3%	
GENERATOR INPUT		
Max. Input Power	60KW	125KW
Rated Input Current	87A	180A
EFFICIENCY		
MPPT Efficiency	99.9%	
Protective Function	Features Islanding Protection, AC Output Overcurrent Protection, AC Short-Circuit Protection, Integrated DC Switch, DC Reverse Connection Protection, And Leakage Current Detection	
BASIC PARAMETERS		
Topology	Non-Transformer	
Protection Level	IP66	
Cooling Mode	Smart Forced Air Cooling	
Operating Temperature Range	-30~60°C (Derating Above 45°C)	
Altitude	3000m (Derating Above 3000m)	
Dimensions (W*D*H)	650*750*290mm	1000*750*320mm
Weight (Approx)	70KG	120KG
Display	4.3"LCD Display + 3 LED Status Indicators + 4 Buttons	
Communication	CAN, RS485, Ethernet, Dry Contact, Optional: Wi-Fi, Bluetooth, 4G	