

PHT25K/30K/40K/50K-M1

Three Phase HV Hybrid Inverter

EFFICIENT - RELIABLE - POWERFUL
COMPATIBILITY - TECHNOLOGY

How to use clean solar energy to meet daily electricity needs of families and enjoy the warmth brought by solar energy even at night? This challenge will be perfectly solved by energy storage hybrid inverters of Each Energy. Our products can satisfy all needs in different situations, regardless of the types of your PV systems and with grid availability or not. We offer uninterrupted power support in any time.



Compatibility

lithium batteries:
voltage range 80-800 V;
18A per string Max. PV input current



Flexibility

Supports diesel generator;
No grid places



Efficiency

Max. efficiency: 98.8%;
MPPT efficiency: 99.9%



Performance

UPS automatic switch in < 10ms;
Premium grid peak shaving
capabilities



Intelligent system

Intelligent EMS function

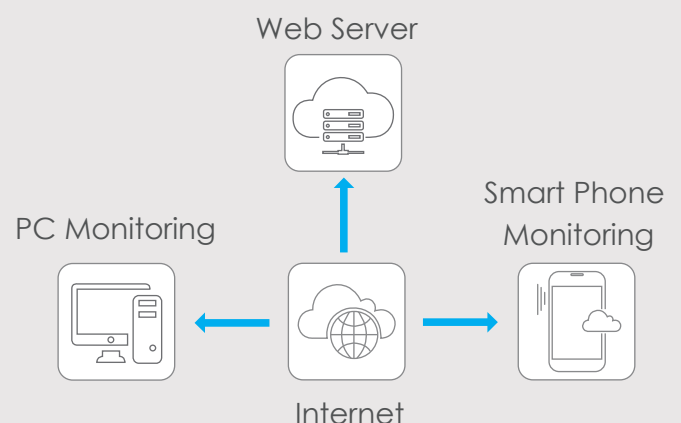


Easy to Use

Plug and play installation;
Easy to monitoring



ANYTIME ANYWHERE MONITORING



Model	PHT25K-M1	PHT30K-M1	PHT40K-M1	PHT50K-M1
Battery Data				
Battery type	Li-ion			
Battery voltage range(V)	80~800			
Max. charging/discharging current(A)	60+60/60+60			
Rated charging current/discharging current(A)	50+50/50+50			
Number of battery input	2			
Charging strategy for Li-ion battery	Self-adaption to BMS			
Communications	RS485, CAN			
PV String DC Input Data				
Recommended max. PV power(KW)	40	48	64	80
Max. input voltage(V)	1100			
Start-up voltage(V)/ Min. input DC operation voltage(V)	50/40			
MPPT voltage range(V)	100~1080			
Max. input current(A)	36/36/36/36			
Max. short circuit current(A)	44/44/44/44			
MPPT number	4			
Strings number per MPPT	2/2/2/2			
AC Output Data(On-Grid Side)				
Rated output power(KW)	25	30	40	50
Rated/Max. apparent output power(KVA)	25/25	30/30	40/40	50/50
Rated grid output current(A)	36.2	43.5	58.0	72.5
Max. output current(A)	36.2	43.5	58.0	72.5
Operation phase	3P			
Rated grid voltage/range(V) (3P/N/PE)	220/380, 230/400, 240/415, 312~520			
Rated grid frequency(Hz)	50/60			
Power Factor	>0.99, (-0.8 to +0.8 adjustable)			
THDi	< 3 %			
AC Output Data(Back-Up/UPS Side)				
Rated output power(KW)	25	30	40	55
Peak apparent output power(KW), for 60S	50	50	50	50
Back-Up/UPS switch time(ms)	<10			
Rated output voltage/range(V) (3P/N/PE)	220/380, 230/400, 240/415, 312~520			
Rated frequency(Hz)	50/60			
Rated output current(A)	36.2	43.5	58.0	72.5
THDv(@linear load)	< 2%			
Efficiency				
Max. efficiency	98.8%			
EU efficiency	98.3%			
Protection				
Ground fault monitoring	Yes			
Output over voltage protection	Yes			
Anti-islanding protection	Yes			
Integrated AFCI	Optional			
DC reverse-polarity protection	Yes			
AC short circuit protection	Yes			
Leakage current protection	Yes			
Surge protection	Yes			
DC switch(solar)	Yes			
Battery input reverse polarity protection	Yes			
Over voltage category	AC ClassIII/PV ClassII			
General Data				
Dimensions(mm) (W*H*D)	700*519*270			
Shell material	Aluminium alloy			
Weight(Kg)	50			
Operating ambient temperature range	-25~60 C			
Topology	Transformerless			
Ingress protection	IP66			
Cooling concept	Smart fan&Natural convection			
Max. operation altitude(m)	3000			
Grid connection standard	AS/NZS 4777.2:2020, EN50549-1:2019, G98:2021, G99:2021, NC RFG, PTPIREE, ABNT NBR 16149, ABNT NBR 16150, VDE-AR-N 4105, CEI0-21, RD1699			
Safety/EMC standard	IEC-62109-1/-2, IEC-62477-1/-2, IEC-61000-6-1/-2/-3, NB/T32004			
DC connection	MC4/D4			
Communications	Wifi, 4G, GPRS, Bluetooth, RS485, CAN			

Cooperate brands

