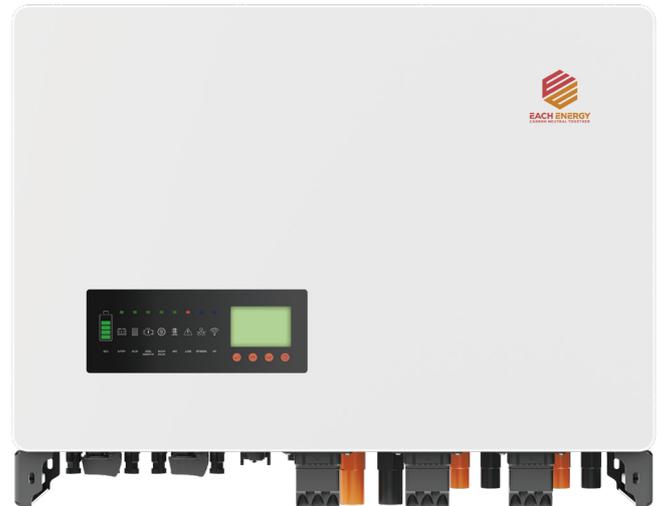


PHT25K/29.9K/30K/35K/40K/45K 50K-M1

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;
20A per string Max. PV input current



Flexibility

Supports diesel generator;
No grid places



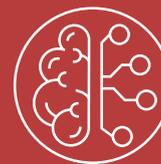
Efficiency

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



Performance

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



Intelligent system

Intelligent EMS function

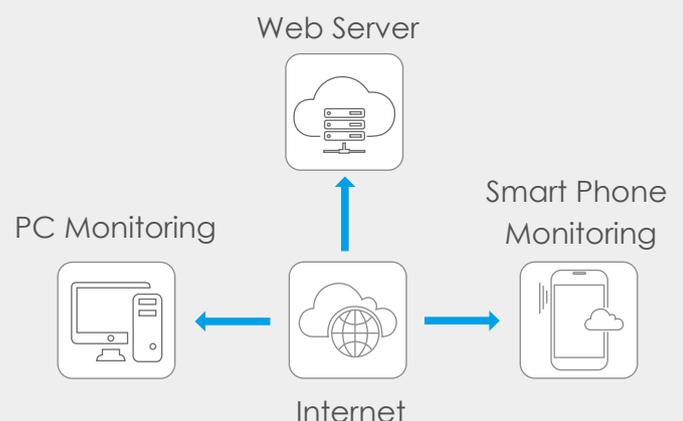


Easy to Use

Plug and play installation;
Easy to monitoring



ANYTIME ANYWHERE MONITORING



Model	PHT25K-M1	PHT29.9K-M1	PHT30K-M1	PHT35K-M1	PHT40K-M1	PHT45K-M1	PHT50K-M1
Battery Data							
Battery type	Li-ion						
Battery voltage range(V)	200~800						
Max. charging/discharging current(A)	60A + 60A/120A						
Rated charging current /discharging current(A)	50A + 50A/100A						
Number of battery input	2/1						
Charging strategy for Li-ion battery	Self-adaption to BMS						
Communications	RS485, CAN						
PV String DC Input Data							
Recommended max. PV power(KW)	40	47.84	48	56	64	72	80
Max. input voltage(V)	1100						
Start-up voltage(V)/ Min. input DC operation voltage(V)	50/40						
MPPT voltage range(V)	100~1000						
Max. input current(A)	40/40/40/40						
Max. short circuit current(A)	60/60/60/60						
MPPT number	4						
Strings number per MPPT	2						
AC Output Data(On-Grid Side)							
Rated output power(KW)	25	29.9	30	35	40	45	50
Rated/Max. apparent output power(KVA)	25/25	29.9/29.9	30/30	35/35	40/40	45/45	50/50
Rated grid output current(A)	36.2	43.3	43.5	50.7	58.0	65.2	72.5
Max. output current(A)	36.2	43.3	43.5	50.7	58.0	65.2	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	29.9	30	35	40	45	50
Peak apparent output power(KW), for 60S	50	58.8	60	70	80	90	100
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	43.3	43.5	50.7	58.0	65.2	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)	800*631*315.5						
Shell material	Aluminium alloy						
Weight(Kg)	72						
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/NZS4777:2020, EN50549-10:2022, G98:2021, G99:2021, NC RFG, ABNT NBR 16150, VDE-AR-N 4105, CEI0-21, CEI0-16, RD1699, NA/EEA, C10:2019, PPDS:2021, Tor+R25, IEC61683, IEC61727&62161						
Safety/EMC standard	IEC-62109-1/-2, IEC-61000-6-1/-2/-3, NB/T32004						
DC connection	MC4/D4						
Communications	Wifi, 4G, GPRS, Bluetooth, RS485, CAN						