

PHT25K/29K/30K/35K/40K/45K 50K/55K/60K-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

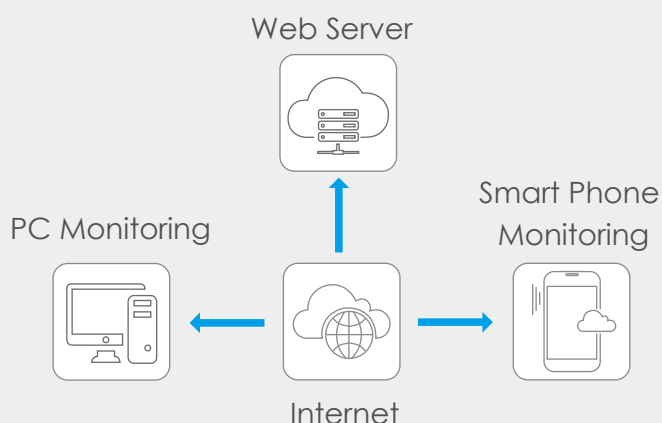


Easy to Use

Plug and play installation;
Easy to monitoring



ANYTIME ANYWHERE MONITORING



Model	PHT25K-M1	PHT29K-M1	PHT30K-M1	PHT35K-M1	PHT40K-M1	PHT45K-M1	PHT50K-M1	PHT55K-M1	PHT60K-M1
Battery Data									
Battery type					Li-ion				
Battery voltage range(V)					200~800				
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	46.4	48	56	64	72	80	88	96
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)					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	30	35	40	45	50	55	60
Rated/Max. apparent output power(KVA)	25/25	29/29	30/30	35/35	40/40	45/45	50/50	55/55	60/60
Rated grid output current(A)	36.2	42.0	43.5	50.7	58.0	65.2	72.5	79.7	87.0
Max. output current(A)	36.2	42.0	43.5	50.7	58.0	65.2	72.5	79.7	87.0
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	30	35	40	45	50	55	60
Peak apparent output power(KW), for 60S	50	50	50	50	50	50	60	60	60
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	42.0	43.5	50.7	58.0	65.2	72.5	79.7	87.0
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)					70				
Operating ambient temperature range					-25~60 ℃				
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, CEIO-21, CEIO-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				