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EACH ENERGY



**High Efficiency Solar Inverter
Manufacturer On-Grid&Hybrid Inverter**

Each Energy Technology (Suzhou) Co., Ltd.

Carbon Neutral Together

Catalogue

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02 Why Each Energy

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Stronger Compatibility
Ingenious Design
Easier Communications

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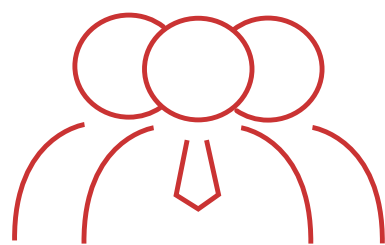
Company Profile

Each Energy Technology (Suzhou) Co. Ltd. ("Each Energy") is the world's most trustworthy inverter brand with products installed in more than 20 countries worldwide.

Established by an expert team with over 10 years experience, by integrating global leading engineering in the research and development department, Each Energy has made a breakthrough in terms of solar inverters' compatibility, stability, efficiency and monitoring.

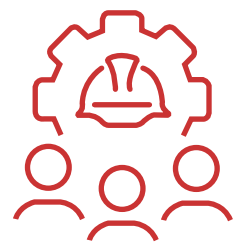
Each Energy constantly invests in R&D to provide the most innovative products and improve existing ones.

Offering only the leading product features currently available, Each Energy is committed to brightening the lives of each family around the world with renewable energy and contributing to global carbon neutral enterprise.



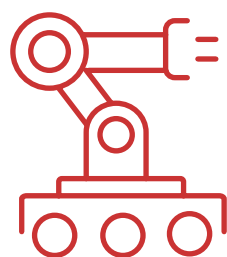
300+

Company Employees



120+

R&D Engineers



3

Production Bases



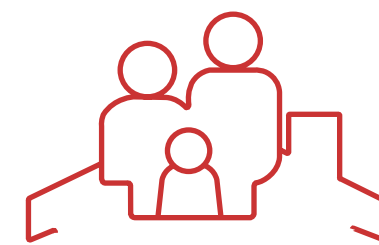
50+

Patents



70+

Global Footprints



200000+

Served Families

WHY EACH ENERGY

Higher Yield

- Lower start-up voltage
- High max efficiency of 98.6% for single phase models and 98.8% for three phase ones
- Higher max DC input voltage(600V for single phase, 1100V for three phase), and higher max DC input current (18A-20A string), capable to connect more PV modules
- Dissipating heat efficiently, no derating at 50 °C
- AC output voltage 80V to 300V adjustable, compatible with grids of most countries across the world

Stronger Compatibility

- Super wide battery voltage range;
- wider charge and discharge current range, suitable to middle voltage and high voltage batteries
- Max. 200% back-up output overloading @60s
- 110% unbalanced load

Easier Communications

- Wifi, 4G, GPRS, Bluetooth and RS485 communication supported
- Remote monitoring

Ingenious Design

- DC inputs on the leftmost side, saving DC cable and easy to maintain
- Smaller size and light weight, aesthetically appealing and saving installation space and effort
- IP66 ingress protection

Product Series Introduction

On-grid Inverter

Single phase On-grid Inverter

- MEES0.6-4K-M1
- EES3-6K-M1
- EES6Pro-10K-M1

Three phase On-grid Inverter

- EET5KPro-20K-M1
- EET15Pro-30K-M1
- EET40-60K-M1
- EET75-110K-M1



EES
3-6KW
Single phase 2 mppts
On-grid Inverter



EES
6Pro-10KW
Single phase 3 mppts
On-grid Inverter



EET
5Pro-20KW
Three phase 3 mppts
On-grid Inverter



EET
15Pro-30KW
Three phase 3 mppts
On-grid Inverter



EET
40-60KW
Three phase 5-6 mppts
On-grid Inverter



MEES
0.6-4KW
Single phase 1 mppts
On-grid Inverter



EET
75-110KW
Three phase 7&9 mppts
On-grid Inverter

Product Series Introduction

Hybrid&ESS Battery

PHS&PHT &PLS SERIES

- PHS3-8K-M1
- PHT4-20K-M1
- PHT25-50K-M1
- PHT75-110K-M1
- PLS8-12K-M1

AIO ESS SERIES

- APHS3-8K-H
- APHS3-8K-M
- APHT4-20K-H

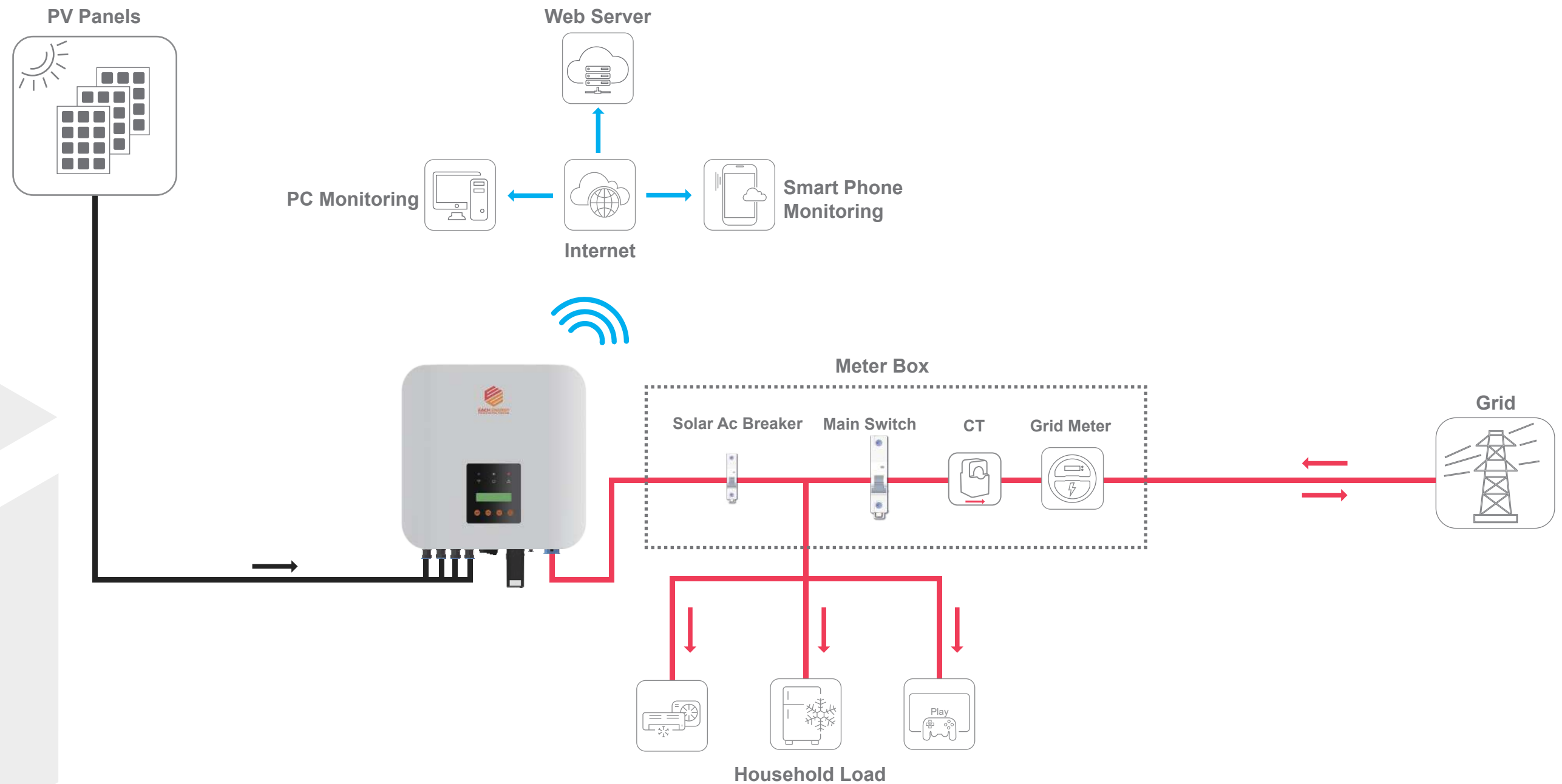
BATTERY

- | | | |
|---------|---------|-----------|
| • H4-4 | • H5-5 | • M10-10 |
| • H4-8 | • H5-10 | |
| • H4-12 | • H5-15 | • CH30-60 |
| • H4-16 | • H5-20 | |
| • H4-20 | | |
| • H4-24 | | |
| • H4-28 | | |
| • H4-32 | | |



Residential Solutions

On-grid Inverter



1. PV panels will supply power firstly to load, then to grid in the day time.
2. Grid will be the power source to supply load in the night time.



power from PV panels

power export to grid or power from grid

communication (Wifi/4G/GPRS)

Model	MEES0.6K-M1	MEES0.7K-M1	MEES0.8K-M1	MEES1K-M1	MEES1.5K-M1
DC Input Data					
Recommended max. PV power(KW)	1.2	1.4	1.6	2	2.25
Max. input voltage(V)	600				
Start-up voltage(V)/ Min. input DC operation voltage(V)	40/30				
MPPT voltage range(V)	50~580	50~580	50~580	80~580	80~580
Max. input current(A)	18	18	18	18	18
Max. short circuit current(A)	22	22	22	22	22
MPPT number	1				
Strings number per MPPT	1	1	1	1	1
AC output Data					
Rated output power(KW)	0.6	0.7	0.8	1	1.5
Rated/Max. apparent output power(KVA)	0.6/0.6	0.7/0.7	0.8/0.8	1/1	1.5/1.5
Max. active power(KW)	0.6	0.7	0.8	1	1.5
Rated grid output current(A)	2.6	3.0	3.5	4.3	6.5
Max. output current(A)	2.6	3.0	3.5	4.3	6.5
Rated grid voltage/range(V) (L/N/PE)	220/230/240/180~300				
Rated grid frequency(Hz)	50/60				
Power Factor	>0.99, (-0.8 to +0.8 adjustable)				
THDi	< 3%				
Efficiency					
Max. efficiency	98.60%				
EU efficiency	98.10%				
Protection					
Ground fault monitoring	Yes				
Output over voltage protection	Yes				
Anti-islanding protection	Yes				
Integrated AFCI	Optional				
DC reverse-polarity protection	Yes				
Over voltage category	AC ClassIII/PV ClassII				
General Data					
Dimension(mm) (W*H*D)	320*220*122.5				
Shell material	Aluminium alloy				
Noise Emission(dBA)	≤20				
Weight(Kg)	6				
Operating ambient temperature range	-25~60 C				
Topology	Transformerless				
Ingress protection	IP66				
Cooling concept	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(2.4G), 4G, GPRS, Bluetooth, RS485				

Single Phase · On-grid Inverter

MEES0.6K/0.7K/0.8K/1K/1.5K
/2K/3K/3.6K/4K-M1



Higher Yield

98.6% max efficiency;
98.1% EU efficiency



Compatibility

AC output voltage 180 V to
300 V adjustable, compatible with the
grids of most countries; Higher DC max
input voltage and current



Higher Quality

IP 66 ingress protection;
Efficient heat dissipation;
Uvioresistant; Corrosion
resistant



Easy To Use

Light weigh and smaller
size; Easy to install;
No fan, noiseless



Safety

Ground fault monitoring;
Thunder-proof and
low radiance



Communications

Wifi, 4G, GPRS, Bluetooth, RS485;
Remote monitoring



Model	MEES2K-M1	MEES3K-M1	MEES3.6K-M1	MEES4K-M1
DC Input Data				
Recommended max. PV power(KW)	3	4.5	5.4	6
Max. input voltage(V)	600			
Start-up voltage(V)/ Min. input DC operation voltage(V)	40/30			
MPPT voltage range(V)	80~580			
Max. input current(A)	18	18	18	18
Max. short circuit current(A)	22	22	22	22
MPPT number	1			
String number per MPPT	1	1	1	1
AC output Data				
Rated output power(KW)	2	3	3.6	4
Rated/Max. apparent output power(KVA)	2/2	3/3	3.6/3.6	4/4
Max. active power(KW)	2	3	3.6	4
Rated grid output current(A)	8.7	13.0	15.7	17.4
Max. output current(A)	8.7	13.0	15.7	17.4
Rated grid voltage/range(V) (L/N/PE)	220/230/240/180~300			
Rated grid frequency(Hz)	50/60			
Power Factor	>0.99, (-0.8 to +0.8 adjustable)			
THDi	< 3%			
Efficiency				
Max. efficiency	98.60%			
EU efficiency	98.10%			
Protection				
Ground fault monitoring	Yes			
Output over voltage protection	Yes			
Anti-islanding protection	Yes			
Integrated AFCI	Optional			
DC reverse-polarity protection	Yes			
Over voltage category	AC ClassIII/PV ClassII			
General Data				
Dimension(mm) (W*H*D)	320*220*122.5		320*220*152.5	
Shell material	Aluminium alloy			
Noise Emission(dBA)	≤20			
Weight(Kg)	6			
Operating ambient temperature range	-25~60℃			
Topology	Transformerless			
Ingress protection	IP66			
Cooling concept	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(2.4G), 4G, GPRS, Bluetooth, RS485			

Single Phase · On-grid Inverter

MEES0.6K/0.7K/0.8K/1K/1.5K
/2K/3K/3.6K/4K-M1



Higher Yield

98.6% max efficiency;
98.1% EU efficiency



Compatibility

AC output voltage 180 V to
300 V adjustable, compatible with the
grids of most countries; Higher DC max
input voltage and current



Higher Quality

IP 66 ingress protection;
Efficient heat dissipation;
Uvioresistant; Corrosion
resistant



Easy To Use

Light weigh and smaller
size; Easy to install;
No fan, noiseless



Safety

Ground fault monitoring;
Thunder-proof and
low radiance



Communications

Wifi, 4G, GPRS, Bluetooth, RS485;
Remote monitoring



Single Phase · On-grid Inverter

EES3K/3.6K/4K/4.6K/5K/6K-M1



Higher Yield

98.6% max efficiency;
2 MPPTs design
with precise MPPT
algorithm



Compatibility

AC output voltage 180 V to
300 V adjustable, compatible with the
grids of most countries; Higher DC max
input voltage and current



Higher Quality

IP 66 ingress protection;
Efficient heat dissipation;
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Safety

Ground fault monitoring;
Thunder-proof and
low radiance



Communications

Wifi, 4G, GPRS, Bluetooth, RS485;
Remote monitoring



Model	EES3K-M1	EES3.6K-M1	EES4K-M1	EES4.6K-M1	EES5K-M1	EES6K-M1
DC Input Data						
Recommended max. PV power(KW)	4.5	5.4	6	6.9	7.5	9
Max. input voltage(V)	600					
Start-up voltage(V)/ Min. input DC operation voltage(V)	40/30					
MPPT voltage range(V)	80~580					
Max. input current(A)	18/18					
Max. short circuit current(A)	22/22					
MPPT number	2					
Strings number per MPPT	1/1					
AC output Data						
Rated output power(KW)	3	3.6	4	4.6	5	6
Rated/Max. apparent output power(KVA)	3/3	3.6/3.6	4/4	4.6/4.6	5/5	6/6
Max. active power(KW)	3	3.6	4	4.6	5	6
Rated grid output current(A)	13.0	15.7	17.4	20.0	21.7	26.0
Max. output current(A)	13.0	15.7	17.4	20.0	21.7	26.0
Rated grid voltage/range(V) (L/N/PE)	220/230/240/180~300					
Rated grid frequency(Hz)	50/60					
Power Factor	>0.99, (-0.8 to +0.8 adjustable)					
THDi	< 3%					
Efficiency						
Max. efficiency	98.60%					
EU efficiency	98.10%					
Protection						
Ground fault monitoring	Yes					
Output over voltage protection	Yes					
Anti-islanding protection	Yes					
Integrated AFCI	Optional					
DC reverse-polarity protection	Yes					
Over voltage category	AC ClassIII/PV ClassII					
General Data						
Dimension(mm) (W*H*D)	341*350*159					
Shell material	Aluminium alloy					
Weight(Kg)	10					
Operating ambient temperature range	-25~60 ℃					
Noise Emission(dB(A))	≤20					
Topology	Transformerless					
Ingress protection	IP 66					
Cooling concept	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(2.4G), 4G, GPRS, Bluetooth, RS485					

Model	EES6KPro-M1	EES7K-M1	EES8K-M1	EES9K-M1	EES10K-M1
DC Input Data					
Recommended max. PV power(KW)	9	10.5	12	13.5	15
Max. input voltage(V)	600				
MPPT voltage range(V)	80~580				
Max. input current(A)	18/18/18	18/18/18	18/18/18	18/18/36	18/18/36
Start-up voltage(V)/ Min. input DC operation voltage(V)	40/30				
Max. short circuit current(A)	22/22/22	22/22/22	22/22/22	22/22/44	22/22/44
MPPT number	3				
Strings number per MPPT	1/1/1	1/1/1	1/1/1	1/1/2	1/1/2
AC output Data					
Rated output power(KW)	6	7	8	9	10
Rated/Max. apparent output power(KVA)	6/6	7/7	8/8	9/9	10/10
Max. active power(KW)	6	7	8	9	10
Rated grid output current(A)	26	30.4	34.8	39.1	43.5
Max. output current(A)	26	30.4	34.8	39.1	43.5
Rated grid voltage/range(V) (L/N/PE)	220/230/240/180~300				
Rated grid frequency(Hz)	50/60				
Power Factor	>0.99, (-0.8 to +0.8 adjustable)				
THDi	< 3%				
Efficiency					
Max. efficiency	98.60%				
EU efficiency	98.10%				
Protection					
Ground fault monitoring	Yes				
Output over voltage protection	Yes				
Anti-islanding protection	Yes				
Integrated AFCI	Optional				
DC reverse-polarity protection	Yes				
Over voltage category	AC ClassIII/PV ClassII				
General Data					
Dimension(mm) (W*H*D)	411*401*162				
Shell material	Aluminium alloy				
Weight(Kg)	14(EES6KPro-7K)		14.2(EES8K-10K)		
Operating ambient temperature range	-25~60℃				
Noise Emission(dB(A))	≤20				
Topology	Transformerless				
Ingress protection	IP 66				
Cooling concept	Natural convection(EES6KPro-7K)		Smart fan&Natural convection(EES8K-10K)		
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(2.4G), 4G, GPRS, Bluetooth, RS485				

Single Phase · On-grid Inverter

EES6Kpro/7K/8K/9K/10K-M1



Higher Yield

98.6% max efficiency;
3 MPPTs design
with precise MPPT
algorithm



Compatibility

AC output voltage 180 V to
300 V adjustable, compatible with the
grids of most countries; Higher DC max
input voltage and current



Higher Quality

IP 66 ingress protection;
Efficient heat dissipation;
Uvioresistant; Corrosion
resistant



Easy To Use

Light weigh and smaller
size; Easy to install;



Safety

Ground fault monitoring;
Thunder-proof and
low radiance



Communications

Wifi, 4G, GPRS, Bluetooth, RS485;
Remote monitoring



Model	EET5KPro-M1	EET6KPro-M1	EET8K-M1	EET10K-M1
DC Input Data				
Recommended max. PV power(KW)	7.5	9	12	15
Max. input voltage(V)	1000			
Start-up voltage(V)/ Min. input DC operation voltage(V)	50/40			
MPPT voltage range(V)	100~900			
Max. input current(A)	18/18/18	18/18/18	18/18/18	18/18/36
Max. short circuit current(A)	22/22/22	22/22/22	22/22/22	22/22/44
MPPT number	3			
Strings number per MPPT	1/1/1	1/1/1	1/1/1	1/1/2
AC output Data				
Rated output power(KW)	5	6	8	10
Rated/Max. apparent output power(KVA)	5/5	6/6	8/8	10/10
Max. active power(KW)	5	6	8	10
Rated grid output current(A)	7.25	8.7	11.6	14.5
Max. output current(A)	7.25	8.7	11.6	14.5
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%			
Efficiency				
Max. efficiency	98.80%			
EU efficiency	98.30%			
Protection				
Ground fault monitoring	Yes			
Output over voltage protection	Yes			
Anti-islanding protection	Yes			
Integrated AFCI	Optional			
DC reverse-polarity protection	Yes			
Over voltage category	AC ClassIII/PV ClassII			
General Data				
Dimension(mm) (W*H*D)	462*453*249			
Shell material	Aluminium alloy			
Noise Emission(dBA)	≤20			
Weight(Kg)	15			
Operating ambient temperature range	-25~60℃			
Topology	Transformerless			
Ingress protection	IP66			
Cooling concept	Natural convection(EET5KPro-6KPro)		Smart fan&Natural convection(EET8K-10K)	
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(2.4G), 4G, GPRS, Bluetooth, RS485			

Three Phase · On-grid Inverter

EET5KPro/6KPro/8K/10K/12K/15K/
18K/20K-M1



Higher Yield

98.8% max efficiency;
3 MPPTs design
with precise MPPT
algorithm



Compatibility

AC output voltage 180 V to
300 V adjustable, compatible with the
grids of most countries; Higher DC max
input voltage and current



Higher Quality

IP 66 ingress protection;
Efficient heat dissipation;
Uvioresistant; Corrosion
resistant



Easy To Use

Light weigh and smaller
size; Easy to install;



Safety

Ground fault monitoring;
Thunder-proof and
low radiance



Communications

Wifi, 4G, GPRS, Bluetooth, RS485;
Remote monitoring



Model	EET12K-M1	EET15K-M1	EET18K-M1	EET20K-M1
DC Input Data				
Recommended max. PV power(KW)	18	22.5	27	30
Max. input voltage(V)	1000			
Start-up voltage(V)/ Min. input DC operation voltage(V)	50/40			
MPPT voltage range(V)	100~900			
Max. input current(A)	18/18/36	18/18/36	18/18/36	18/18/36
Max. short circuit current(A)	22/22/44	22/22/44	22/22/44	22/22/44
MPPT number	3			
Strings number per MPPT	1/1/2	1/1/2	1/1/2	1/1/2
AC output Data				
Rated output power(KW)	12	15	18	20
Rated/Max. apparent output power(KVA)	12/12	15/15	18/18	20/20
Max. active power(KW)	12	15	18	20
Rated grid output current(A)	17.4	21.7	26.1	29
Max. output current(A)	17.4	21.7	26.1	29
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%			
Efficiency				
Max. efficiency	98.80%			
EU efficiency	98.30%			
Protection				
Ground fault monitoring	Yes			
Output over voltage protection	Yes			
Anti-islanding protection	Yes			
Integrated AFCI	Optional			
DC reverse-polarity protection	Yes			
Over voltage category	AC ClassIII/PV ClassII			
General Data				
Dimension(mm) (W*H*D)	462*453*249			
Shell material	Aluminium alloy			
Noise Emission(dBA)	≤40			
Weight(Kg)	15.2			
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(2.4G), 4G, GPRS, Bluetooth, RS485			

Three Phase · On-grid Inverter

EET5KPro/6KPro/8K/10K/12K/15K/ 18K/20K-M1



Higher Yield

98.8% max efficiency;
3 MPPTs design
with precise MPPT
algorithm



Compatibility

AC output voltage 180 V to
300 V adjustable, compatible with the
grids of most countries; Higher DC max
input voltage and current



Higher Quality

IP 66 ingress protection;
Efficient heat dissipation;
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Light weigh and smaller
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Safety

Ground fault monitoring;
Thunder-proof and
low radiance



Communications

Wifi, 4G, GPRS, Bluetooth, RS485;
Remote monitoring



Three Phase · On-grid Inverter

EET15KPro/18KPro/20KPro/ 22K/25K/30K-M1



Higher Yield

98.8% max efficiency;
3 MPPTs design
with precise MPPT
algorithm



Higher Quality

IP 66 ingress protection;
Efficient heat dissipation;
Uvioresistant; Corrosion
resistant



Safety

Ground fault monitoring;
Thunder-proof and
low radiance



Compatibility

AC output voltage 180 V to
300 V adjustable,compatible with the
grids of most countries;Higher DC max
input voltage and current



Easy To Use

Light weigh and smaller
size;Easy to install;



Communications

Wifi, 4G, GPRS, Bluetooth, RS485;
Remote monitoring



Model	EET15KPro-M1	EET18KPro-M1	EET20KPro-M1	EET22K-M1	EET25K-M1	EET30K-M1
DC Input Data						
Recommended max. PV power(KW)	22.5	27	30	33	37.5	45
Max. input voltage(V)	1000					
Start-up voltage(V)/ Min. input DC operation voltage(V)	50/40					
MPPT voltage range(V)	100~900					
Max. input current(A)	36/36/36	36/36/36	36/36/36	36/36/36	36/36/36	36/36/36
Max. short circuit current(A)	44/44/44	44/44/44	44/44/44	44/44/44	44/44/44	44/44/44
MPPT number	3	3	3	3	3	3
Strings number per MPPT	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2
AC output Data						
Rated output power(KW)	15	18	20	22	25	30
Rated/Max. apparent output power(KVA)	15/15	18/18	20/20	22/22	25/25	30/30
Max. active power(KW)	15	18	20	22	25	30
Rated grid output current(A)	21.7	26.1	29	31.9	36.2	43.5
Max. output current(A)	21.7	26.1	29	31.9	36.2	43.5
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%					
Efficiency						
Max. efficiency	98.80%					
EU efficiency	98.30%					
Protection						
Ground fault monitoring	Yes					
Output over voltage protection	Yes					
Anti-islanding protection	Yes					
Integrated AFCI	Optional					
DC reverse-polarity protection	Yes					
Over voltage category	AC ClassIII/PV ClassII					
General Data						
Dimension(mm) (W*H*D)	488*472*172					
Shell material	Aluminium alloy					
Noise Emission(dB(A))	≤40					
Weight(Kg)	21					
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, 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(2.4G), 4G, GPRS, Bluetooth, RS485					

Model	EET40K-M1	EET50K-M1	EET60K-M1
DC Input Data			
Recommended max. PV power(KW)	60	75	90
Max. input voltage(V)		1000	
Start-up voltage(V)/ Min. input DC operation voltage(V)		50/40	
MPPT voltage range(V)		100~900	
Max. input current(A)	4*40	5*40	6*40
Max. short circuit current(A)	4*60	5*60	6*60
MPPT number	4	5	6
Strings number per MPPT/Total Strings	2/8	2/10	2/12
AC output Data			
Rated output power(KW)	40	50	60
Rated/Max. apparent output power(KVA)	40/40	50/50	60/60
Max. active power(KW)	40	50	60
Rated grid output current(A)	58	72.5	87
Max. output current(A)	58	72.5	87
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%		
Efficiency			
Max. efficiency	98.80%		
EU efficiency	98.30%		
Protection			
Ground fault monitoring	Yes		
Output over voltage protection	Yes		
Anti-islanding protection	Yes		
Integrated AFCI	Optional		
DC reverse-polarity protection	Yes		
Over voltage category	AC ClassIII/PV ClassII		
General Data			
Dimension(mm) (W*H*D)	700*519*270		
Shell material	Aluminium alloy		
Noise Emission(dB(A))	≤40		
Weight(Kg)	45		
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, 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(2.4G), 4G, GPRS, Bluetooth, RS485		

Three Phase · On-grid Inverter

EET40K/50K/60K-M1

Higher Yield
98.8% max efficiency;
Up to 6 MPPTs

Higher Quality
IP 66 ingress protection;
Efficient heat dissipation;
Uvioresistant; Corrosion
resistant

Safety
Ground fault monitoring;
Thunder-proof and
low radiance

Compatibility
AC output voltage 180 V to
300 V adjustable,compatible with the
grids of most countries;Higher DC max
input voltage and current

Easy To Use
Multiple ways of testing
and commisioning;
Easy to install

Communications
Wifi, 4G, GPRS, Bluetooth, RS485;
Remote monitoring

EACH ENERGY
SCIENCE · ELECTRIC · TOGETHER

Product Info

Three Phase·On-grid Inverter

EET75K/80K/90K/100K/110K-M1



Higher Yield

98.8% max efficiency;
9 MPPTs design
with precise MPPT
algorithm



Higher Quality

IP 66 ingress protection;
Efficient heat dissipation;
Uvioresistant; Corrosion
resistant



Safety

Ground fault monitoring;
Thunder-proof and
low radiance



Compatibility

AC output voltage 180 V to
300 V adjustable,compatible with the
grids of most countries;Higher DC max
input voltage and current



Easy To Use

Multiple ways of testing
and commissioning;
Easy to install



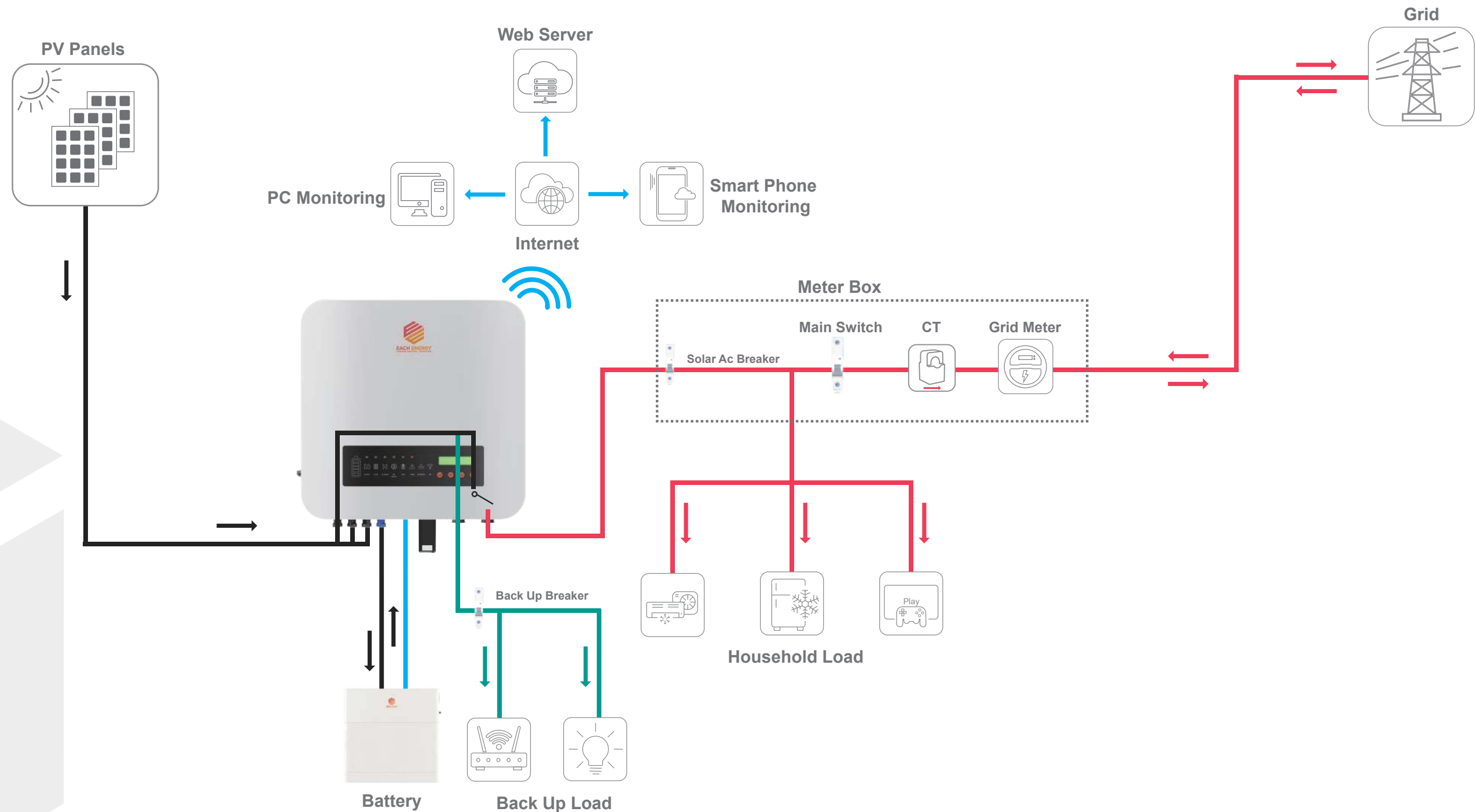
Communications

Wifi, 4G, GPRS, Bluetooth, RS485;
Remote monitoring



Model	EET75K-M1	EET80K-M1	EET90K-M1	EET100K-M1	EET110K-M1
DC Input Data					
Recommended max. PV power(KW)	112.5	120	135	150	165
Max. input voltage(V)	1000				
Start-up voltage(V)/ Min. input DC operation voltage(V)	50/40				
MPPT voltage range(V)	100~900				
Max. input current(A)	7*40		9*40		
Max. short circuit current(A)	7*60		9*60		
MPPT number	7		9		
Strings number per MPPT/Total Strings	2/14		2/18		
AC output Data					
Rated output power(KW)	75	80	90	100	110
Rated/Max. apparent output power(KVA)	75/75	80/80	90/90	100/100	110/110
Max. active power(KW)	75	80	90	100	110
Rated grid output current(A)	108.7	115.9	130.4	144.9	159.4
Max. output current(A)	108.7	115.9	130.4	144.9	159.4
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%				
Efficiency					
Max. efficiency	98.80%				
EU efficiency	98.30%				
Protection					
Ground fault monitoring	Yes				
Output over voltage protection	Yes				
Anti-islanding protection	Yes				
Integrated AFCI	Optional				
DC reverse-polarity protection	Yes				
Over voltage category	AC ClassIII/PV ClassII				
General Data					
Dimension(mm) (W*H*D)	1020*696*300				
Shell material	Aluminium alloy				
Noise Emission(dB(A))	≤40				
Weight(Kg)	65				
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, 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(2.4G), 4G, GPRS, Bluetooth, RS485				

Hybrid Solution-UPS



1. When with sufficient sunlight in the day time, PV panels will supply power firstly to load, then to batteries, and lastly to grid.
2. When no sunlight, and grid is connected, batteries will be the main power source supply backup load. Grid will be the supplementary power source.
3. When no sunlight, no grid power, batteries will be the main power source supply backup load.
4. When no sunlight, no grid power, and no battery power, diesel will be the power source.

power from PV panel and battery

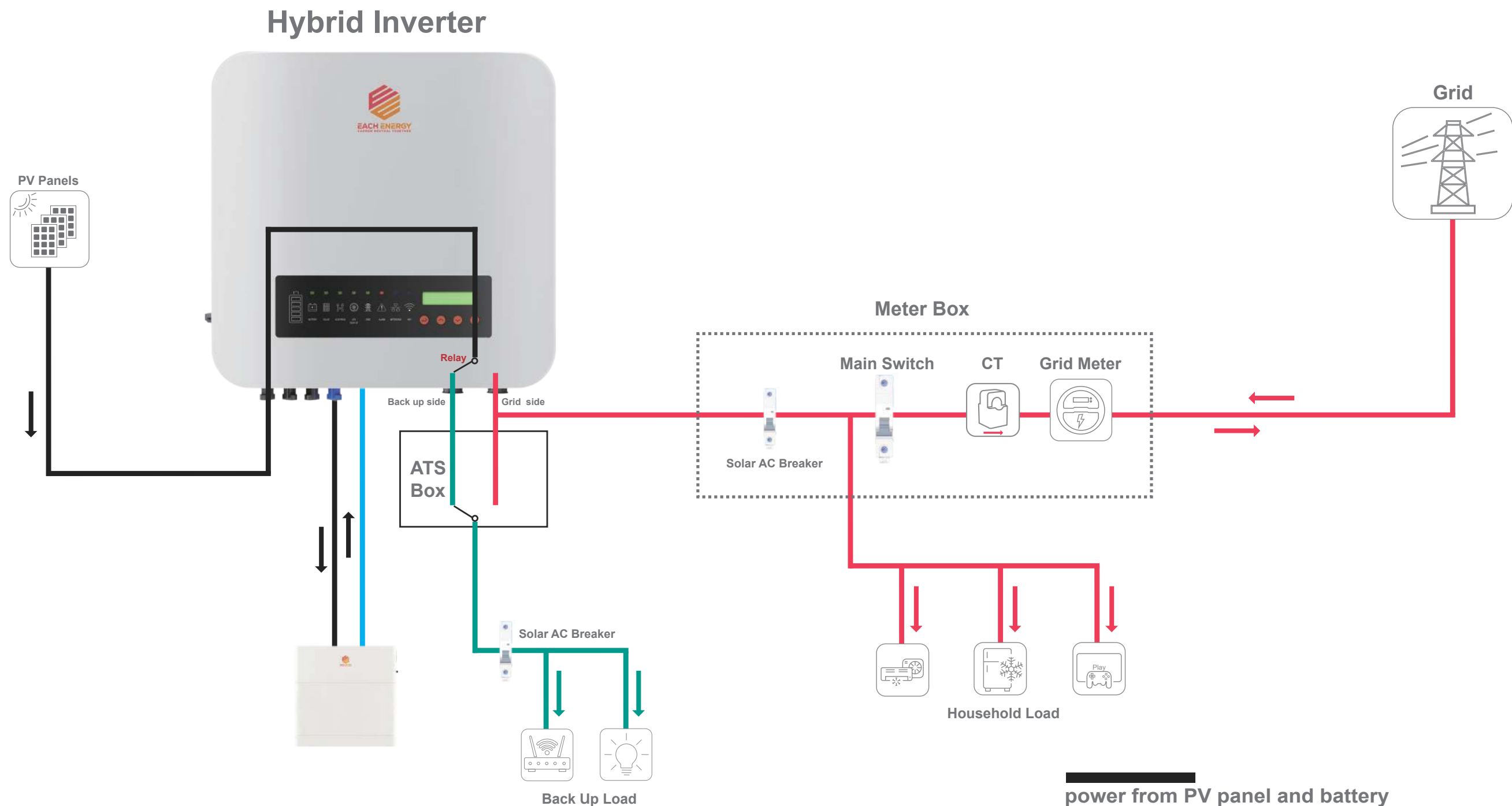
1. Sufficient sunlight: main power from PV panels to back up load, supplementary: grid
2. No sunlight: main power from batteries to back up load, supplementary: grid
3. Other situations: power from grid to back up load

power export to grid or power from grid

communication (Wifi/4G/GPRS)



Hybrid Solution-EPS



1. When with sufficient sunlight in the day time, and grid is unconnected, PV panels will supply power firstly to houseload, then to batteries.

2. When no sunlight, and grid is unconnected, batteries will be the main power source supply houseload.
-

power from PV panel and battery

power export to grid or power from grid

- 1. Sufficient sunlight: main power from PV panels to household load, supplementary: Battery
- 2. No sunlight: main power from batteries to household load

communication (Wifi/4G/GPRS)

Model	PHS3K-M1	PHS3.6K-M1	PHS4K-M1	PHS4.6K-M1	PHS5K-M1	PHS6K-M1	PHS8K-M1
Battery Data							
Battery type	Li-ion						
Battery voltage range(V)	80~500						
Max. charging/discharging current(A)	60/60						
Rated charging current/discharging current(A)	50/50						
Charging strategy for Li-ion battery	Self-adaption to BMS						
Communications	RS485, CAN						
PV String DC Input Data							
Recommended max. PV power(KW)	6	7.2	8	9.2	10	12	16
Max. input voltage(V)	600						
Start-up voltage(V)/ Min. input DC operation voltage(V)	40/30						
MPPT voltage range(V)	80~550						
Max. input current(A)	18/36						
Max. short circuit current(A)	22/44						
MPPT number	2						
Strings number per MPPT	1/2						
AC Output Data(On-Grid Side)							
Rated output power(KW)	3	3.6	4	4.6	5	6	8
Rated/Max. apparent output power(KVA)	3/3	3.6/3.6	4/4	4.6/4.6	5/5	6/6	8/8
Rated grid output current(A)	13.0	15.7	17.4	20	21.7	26.1	34.8
Max. output current(A)	13.0	15.7	17.4	20	21.7	26.1	34.8
Operation phase	1P						
Rated grid voltage/range(V) (L/N/PE)	220/230/240(180~300)						
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)	3	3.6	4	4.6	5	6	8
Peak apparent output power(KW), for 60S	6	7.2	8	8	8	9	9.6
Back-Up/UPS switch time(ms)	<10						
Rated output voltage/range(V) (L/N/PE)	220/230/240, 180~300						
Rated frequency(Hz)	50/60						
Rated output current(A)	13.0	15.7	17.4	20.0	21.7	26.1	34.8
THDv(@linear load)	< 2%						
Efficiency							
Max. efficiency	98.6%						
EU efficiency	98.1%						
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)	411*401*166						
Shell material	Aluminium alloy						
Weight(Kg)	17.7(PHS3-5K)			17.5(PHS6-8K)			
Operating ambient temperature range	-25~60 ℃						
Topology	Transformerless						
Ingress protection	IP66						
Cooling concept	Natural convection(PHS3-5K)			Smart fan(PHS6-8K)			
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/IEA, 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						

Single Phase · HV Hybrid Inverter

PHS3-8K-M1



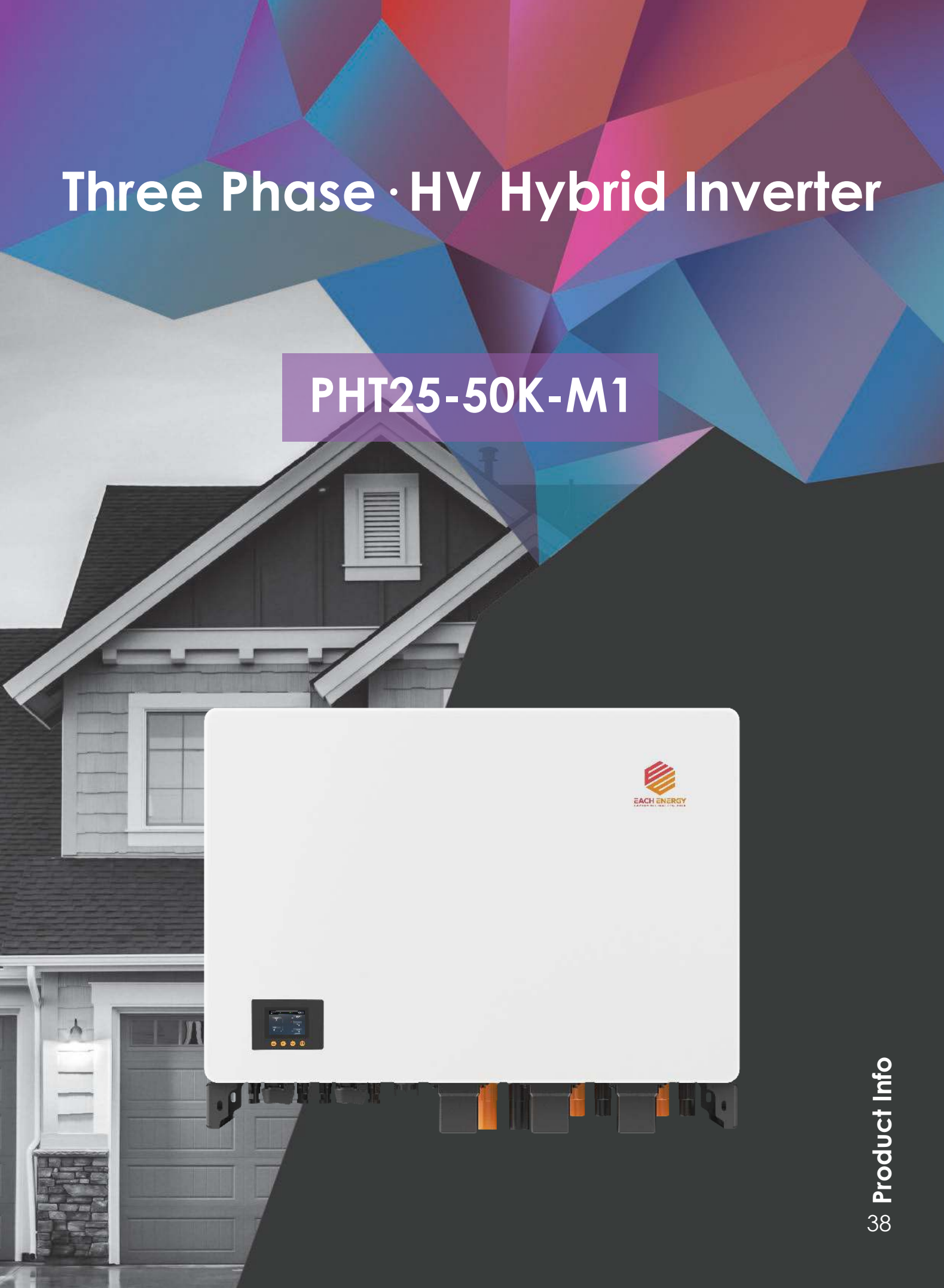
PHT4-20K-M1



Product Info

Model	PHT4K-M1	PHT5K-M1	PHT6K-M1	PHT8K-M1	PHT10K-M1	PHT12K-M1	PHT15K-M1	PHT18K-M1	PHT20K-M1
Battery Data									
Battery type	Li-ion								
Battery voltage range(V)	80~800								
Max. charging/discharging current(A)	25A(Stand)/50A(Optional)								
Rated charging current/discharging current(A)	25A(Stand)/50A(Optional)								
Charging strategy for Li-ion battery	Self-adaption to BMS								
Communications	RS485, CAN								
PV String DC Input Data									
Recommended max. PV power(KW)	8	10	12	16	20	24	30	36	40
Max. input voltage(V)	1000								
Start-up voltage(V)/ Min.input DC operation voltage(V)	50/40								
MPPT voltage range(V)	100~900								
Max. input current(A)	20/20	20/20/20			20/20/40				
Max. short circuit current(A)	30/30	30/30/30			30/30/60				
MPPT number	2	3			3				
Strings number per MPPT	1/1	1/1/1			1/1/2				
AC Output Data(On-Grid Side)									
Rated output power(KW)	4	5	6	8	10	12	15	18	20
Rated/Max. apparent output power(KVA)	4/4	5/5	6/6	8/8	10/10	12/12	15/15	18/18	20/20
Rated grid output current(A)	5.8	7.2	8.7	11.6	14.5	17.4	21.7	26.1	29.0
Max. output current(A)	5.8	7.2	8.7	11.6	14.5	17.4	21.7	26.1	29.0
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)	4	5	6	8	10	12	15	18	20
Peak apparent output power(KW), for 60S	8	10	12	16	20	24	30	36	40
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)	5.8	7.2	8.7	11.6	14.5	17.4	21.7	26.1	29.0
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)	507*522*194								
Shell material	Aluminium alloy								
Weight(Kg)	25								
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, CEI0-21, CEI0-16, RD1699, NA/EEA, C 10:2019, 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								

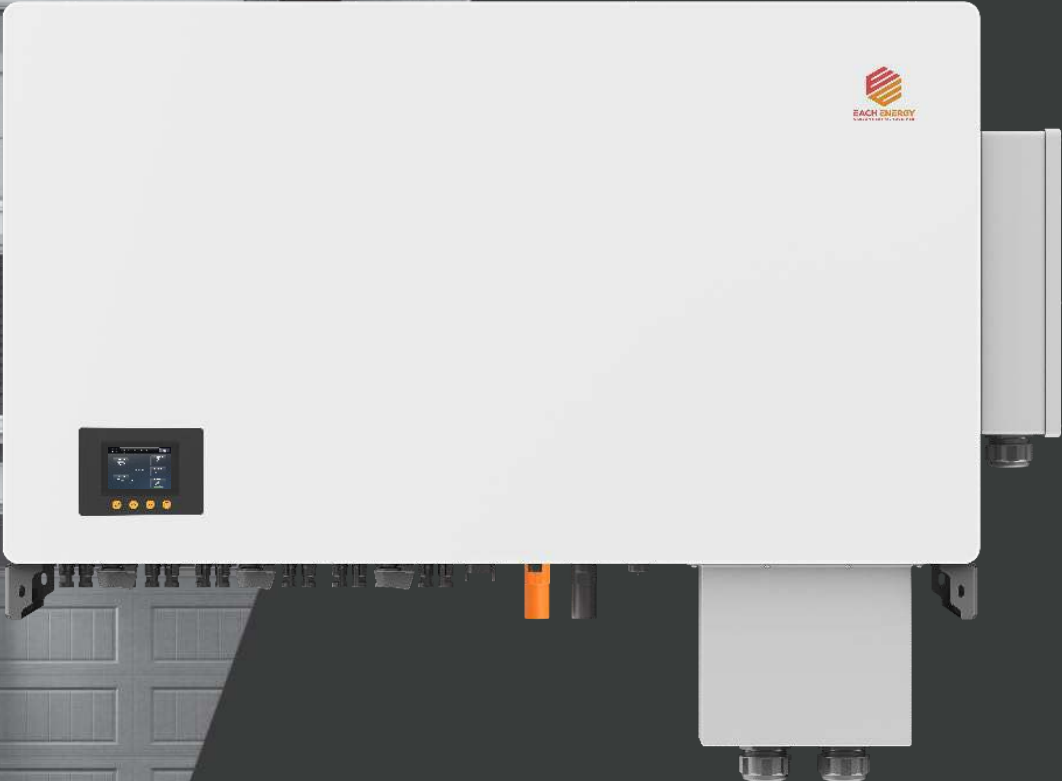
Model	PHT25K-M1	PHT29.9K-M1	PHT30K-M1	PHT35K-M1	PHT40K-M1	PHT45K-M1	PHT50K-M1
Battery Data							
Battery type	Li-ion						
Battery voltage range(V)	200~800						
Max. charging/discharging current(A)	60A + 60A/120A						
Rated charging current /discharging current(A)	50A + 50A/100A						
Number of battery 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)	1000						
Start-up voltage(V)/ Min. input DC operation voltage(V)	50/40						
MPPT voltage range(V)	100~900						
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						



Model	PHT75K-M1	PHT80K-M1	PHT90K-M1	PHT100K-M1	PHT110K-M1
Battery Input Data					
Battery type	Li-ion				
Battery voltage range(V)	300~800				
Max. charging/discharging current(A)	160/160				
Rated Charging current(A)	160				
Max. Charging/Discharging Power	75KW	80KW	90KW	100KW	110KW
Charging Strategy for Li-ion battery	Self-adaption to BMS				
Communications	RS485, CAN				
PV String DC Input Data					
Recommended max. PV power(KW)	150	160	180	200	220
Max. input voltage(V)	1000				
Start-up voltage(V)/ Min.input DC operation voltage(V)	50/40				
MPPT voltage range(V)	100~900				
Max. input current(A)	7*40		9*40		
Max. short circuit current(A)	7*60		9*60		
MPPT number	7		9		
Strings number per MPPT	2/14		2/18		
AC Output Data(On-Grid Side)					
Rated output power(KW)	75	80	90	100	110
Rated/Max. apparent output power(KVA)	75/75	80/80	90/90	100/100	110/110
Rated grid output current(A)	108.7	115.9	130.4	144.9	159.4
Max. output current(A)	108.7	115.9	130.4	144.9	159.4
Operation phase	3P/N/PE				
Rated grid voltage(V) (3P/N/PE)	220V/380V, 230V/400V, 240V/415				
Rated grid frequency(Hz)	50/60				
Power Factor	>0.99 (0.8 leading ~ 0.8 lagging)				
THDi	< 3 %				
AC Output Data(Back-Up/UPS Side)					
Rated output power(KW)	75	80	90	100	110
Peak apparent output power(KW), for 60S	110% - 150 % of rated power				
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)	108.7	115.9	130.4	144.9	159.4
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/BAT ClassII				
General Data					
Dimensions(mm) (W*H*D)	1323*978*338				
Shell material	Aluminium alloy				
Weight(Kg)	110				
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, 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				

Three Phase · HV Hybrid Inverter

PHT75-110K-M1



Single Phase · Low Voltage
Hybrid Inverter

PLS8-12K-M1

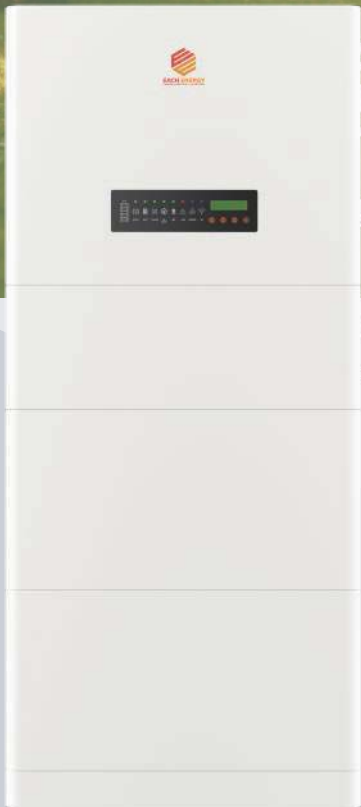


Product Info

Model	PLS8K-M1	PLS10K-M1	PLS12K-M1
Battery Input Data			
Battery Type	Li-ion or Lead-acid		
Battery Voltage Range(V)	48		
Max. Charging/Discharging Current(A)	167/167	208/208	208/208
Rated Charging Current(A)	167/167	208/208	208/208
External Temperature Sensor for Lead-acid	Yes		
Charging Strategy for Li-ion battery	Self-adaption to BMS		
Communications	RS485, CAN		
PV String DC Input Data			
Recommended max. PV power(KW)	16	20	24
Max. input voltage(V)	600		
Start-up voltage/ Min. input DC operation voltage(V)	30/40		
MPPT voltage range(V)	80~580		
Max. input current(A)	40/40		
Max. short circuit current(A)	60/60		
MPPT number	2		
Strings number per MPPT	2/2		
AC Output Data(On-Grid Side)			
Rated output power(KW)	8	10	12
Rated /Max. apparent output power(KVA)	8/8	10/10	12/12
Rated grid output current(A)	34.8	43.5	52.2
Max. output current(A)	34.8	43.5	52.2
Operation phase	1P		
Rated grid voltage/range(V)(L/N/PE)	220/230/240/180 - 300		
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)	8	10	12
Peak apparent output power	110% - 150% of rated power,10 S		
Back-Up/UPS switch time	<10 ms		
Rated grid voltage/range(V)(L/N/PE)	220/230/240 / 180 - 300		
Rated frequency(Hz)	50/60		
Rated output current(A)	34.8	43.5	52.2
THDv(@linear load)	<2%		
Efficiency			
Max. efficiency	98.60%		
EU efficiency	98.10%		
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		
Leakge 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)	540*700*200		
Shell material	Aluminium alloy		
Weight(Kg)	35		
Operating ambient temperature range	-25~60 ℃		
Topology	Transformerless		
Ingress protecton	IP66		
Cooling concept	Natural Convection&Smart Fan		
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,CA		

All In One · ESS
Single Phase · HV · Battery

APHS3K/3.6K/4K/
4.6K/5K/6K/8K-H



Talented

- 98.6% max. efficiency
- 80-500V super wide battery voltage range
- Within 10ms UPS-level switching
- Max. 18A PV input current
- 100% full load charge and discharge

Powerful

- 21A/25A charging and discharging current, suitable to middle voltage and high voltage batteries
- 200% recommended max. PV power input
- Max. 200% back-up output overloading @60s
- Parallel operation capacity with max. 6 units

Friendly

- Smaller cable size and conduit
- Longevity and almost no derating at high temperature
- Wifi and bluetooth connection
- IP66 protection degree

18A 10ms
PV Input Current UPS-level Switching

21/25A 160%-200%
Charging&Discharging Back-up overloading@60S

Model	APHS3K	APHS3.6K	APHS4K	APHS4.6K	APHS5K	APHS6K	APHS8K
Inverter Data							
Battery type	Li-ion						
Battery voltage range(V)	80~500						
Max. charging/discharging current(A)	25/25						
Rated charging current/discharging current(A)	21/21						
Recommended max. PV power(KW)	6	7.2	8	9.2	10	12	16
Max. input voltage(V)	600						
MPPT voltage range(V)	80~580						
Max. input current(A)	18/36						
Max. short circuit current(A)	22/44						
MPPT number	2						
Strings number per MPPT	1/2						
Rated grid voltage/range(V) (L/N/PE)	220/230/240/180~300						
Rated output power(KW)	3	3.6	4	4.6	5	6	8
Rated/Max. apparent output power(KVA)	3/3	3.6/3.6	4/4	4.6/4.6	5/5	6/6	8/8
Rated grid output current(A)	13.0	15.7	17.4	20	21.7	26.1	34.8
Max. output current(A)	13.0	15.7	17.4	20	21.7	26.1	34.8
Peak apparent output power(KW), for 60S	6	7.2	8	8	8	9	9.6
Back-Up/UPS switch time(ms)	<10						
Rated frequency(Hz)	50/60						
Max. efficiency	98.6%						
EU efficiency	98.1%						
Topology	Transformerless						
Dimensions(mm) (W*H*D)	630*450*178						
Weight(Kg)	25.5(APHS3-5K)			25(APHS6-8K)			

General Data

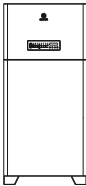
Shell material	Aluminium alloy		
Operating ambient temperature range	-25~60 °C		
Ingress protection	IP66		
Cooling concept	Natural convection(APHS3-5K)	Smart fan(APHS6-8K)	
Max. operation altitude(m)	3000		
Grid connection standard	AS/NZS4777:2020, EN50549-10:2022, G98:2021, G99:2021, NC RFG, ABNT NBR 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		

Battery Data(H4)

Model(KWh)	4.03
Battery type	LFP
Nominal Capacity(Ah)	42
Nominal Energy(KWh)	4.03
Nominal voltage/range(V)	96/80~108
Rated Charge/Discharge Current	0.5C/0.5C
Max Charge/Discharge Current	1C/1C
Dimension(mm)	630*370*178
Weight(Kg)	53
Life Cycle(@25°C)	6000
Life Time	≥10years
Operating Temperature(°C)	-20°C~60°C
Depth of discharge(DoD)	90%
Ingress protection	IP66

System Parameter	H4	H8	H12	H16	H20
System schematic					
Qty. of batteries	1	2	3	4	5
Charge/Discharge temperature range	Charge: 0°C to 53°C/Discharge: -10°C to 53°C				
Cycle life	6000				
Nominal voltage(V)	96	192	288	384	480
Battery total energy(KWh)	4.03	8.06	12.09	16.12	20.15
Dimension(W*H*D)	630*1080*178	630*1450*178	630*1820*178	630*2190*178	630*2560*178
Weight(Kg)	83	122	161	200	238

*Series operation capacity with max. 7 units

Model	APHS3K	APHS3.6K	APHS4K	APHS4.6K	APHS5K	APHS6K	APHS8K
Inverter Data							
Battery type				Li-ion			
Battery voltage range(V)				80~500			
Max. charging/discharging current(A)				60/60			
Rated charging current/discharging current(A)				50/50			
Recommended max. PV power(KW)	6	7.2	8	9.2	10	12	16
Max. input voltage(V)				600			
MPPT voltage range(V)				80~580			
Max. input current(A)				18/36			
Max. short circuit current(A)				22/44			
MPPT number				2			
Strings number per MPPT				1/2			
Rated grid voltage/range(V) (L/N/PE)				220/230/240/180~300			
Rated output power(KW)	3	3.6	4	4.6	5	6	8
Rated/Max. apparent output power(KVA)	3/3	3.6/3.6	4/4	4.6/4.6	5/5	6/6	8/8
Rated grid output current(A)	13.0	15.7	17.4	20	21.7	26.1	34.8
Max. output current(A)	13.0	15.7	17.4	20	21.7	26.1	34.8
Peak apparent output power(KW), for 60S	6	7.2	8	8	8	9	9.6
Back-Up/UPS switch time(ms)				<10			
Rated frequency(Hz)				50/60			
Max. efficiency				98.6%			
EU efficiency				98.1%			
Topology				Transformerless			
Dimensions(mm) (W*H*D)				630*450*178			
Weight(Kg)	25.5(APHS3-5K)			25(APHS6-8K)			
General Data							
Shell material				Aluminium alloy			
Operating ambient temperature range				-25~60 C			
Ingress protection				IP66			
Cooling concept	Natural convection(APHS3-5K)			Smart fan(APHS6-8K)			
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						
Battery Data(M10)							
Model(KWh)				9.6			
Battery type				LFP			
Nominal voltage/range(V)				96/(80~103)			
Capacity(Ah)				100			
Depth of discharge(DoD)				90%			
Dimension(W*H*D)(mm)				630*1010*178			
Weight(Kg)				115			
Ingress protection				IP66			
System Parameter				M10			
System schematic							
Qty. of batteries				1			
Charge/Discharge temperature range				Charge: 0°C to 53°C/Discharge: -10°C to 53°C			
Cycle life				6000			
Nominal voltage/range(V)				96/80~103			
Battery total energy(KWh)				9.6			
Dimension(W*H*D)				630*1460*178			
Weight(Kg)				140			
Certification &Safety Standard				UN38.3/MSDS/IEC62619/EN61000-6-1-3			

All In One · ESS
Single Phase · HV · Battery

APHS3K/3.6K/4K/
4.6K/5K/6K/8K-M

18A
PV Input Current

10ms
UPS-level Switching

50/60A
Charging&Discharging

160%-200%
Back-up overloading@60S

Talented

- 98.6% max. efficiency
- 80-500V super wide battery voltage range
- Within 10ms UPS-level switching
- Max. 18A PV input current
- 100% full load charge and discharge

Powerful

- 50A/60A charging and discharging current, suitable to middle voltage and high voltage batteries
- 200% recommended max. PV power input
- Max. 200% back-up output overloading @60s
- Parallel operation capacity with max. 6 units

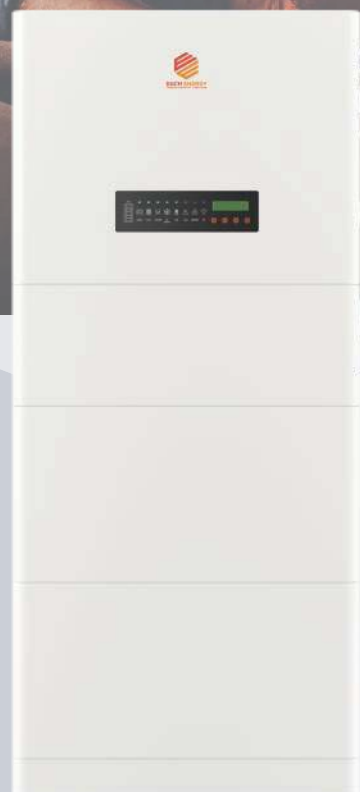
Friendly

- Smaller cable size and conduit
- Longevity and almost no derating at high temperature
- Wifi and bluetooth connection
- IP66 protection degree

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All In One · ESS Three Phase · HV · Battery

APHT4K/5K/6K/8K/10K/ 12K/15K/18K/20K-H All In One · ESS



20A
PV Input Current

10ms
UPS-level Switching

110%
Unbalanced load

160%-200%
Back-up overloading@60s

Talented

- 98.6% max. efficiency
- 80-800V super wide battery voltage range
- Within 10ms UPS-level switching
- Max. 20A PV input current
- 100% full load charge and discharge

Powerful

- 21A/25A charging and discharging current, suitable to middle voltage and high voltage batteries
- 200% Recommended max. PV power input
- Max. 200% back-up output overloading @60s
- Parallel operation capacity with max. 6 units

Friendly

- Smaller cable size and conduit
- Longevity and almost no derating at high temperature
- Wifi and bluetooth connection
- IP66 protection degree

Model	APHT4K	APHT5K	APHT6K	APHT8K	APHT10K	APHT12K	APHT15K	APHT18K	APHT20K
Inverter Data									
Battery type	Li-ion								
Battery voltage range(V)	80~800								
Max. charging/discharging current(A)	25/25								
Rated charging current/discharging current(A)	21/21								
Recommended max. PV power(KW)	8	10	12	16	20	24	24	36	40
Max. input voltage(V)	1000								
MPPT voltage range(V)	100~900								
Max. input current(A)	20/20	20/20/20			20/20/40				
Max. short circuit current(A)	30/30	30/30/30			30/30/60				
MPPT number	2	3			3				
Strings number per MPPT	1/1	1/1/1			1/1/2				
Rated grid voltage/range(V) (L/N/PE)	220/380, 230/400, 240/415, 312~520								
Rated output power(KW)	4	5	6	8	10	12	15	18	20
Rated/Max. apparent output power(KVA)	4/4	5/5	6/6	8/8	10/10	12/12	15/15	18/18	20/20
Rated grid output current(A)	5.8	7.2	8.7	11.6	14.5	17.4	21.7	26.1	29
Max. output current(A)	5.8	7.2	8.7	11.6	14.5	17.4	21.7	26.1	29
Peak apparent output power(KW), for 60S	8	10	12	16	20	20	22.5	22.5	24
Back-Up/UPS switch time(ms)	<10								
Rated frequency(Hz)	50/60								
Max. efficiency	98.6%								
EU efficiency	98.1%								
Topology	Transformerless								
Dimensions(mm) (W*H*D)	630*450*178								
Weight(Kg)	31								
General Data									
Shell material	Aluminium alloy								
Operating ambient temperature range	-25~60 °C								
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								

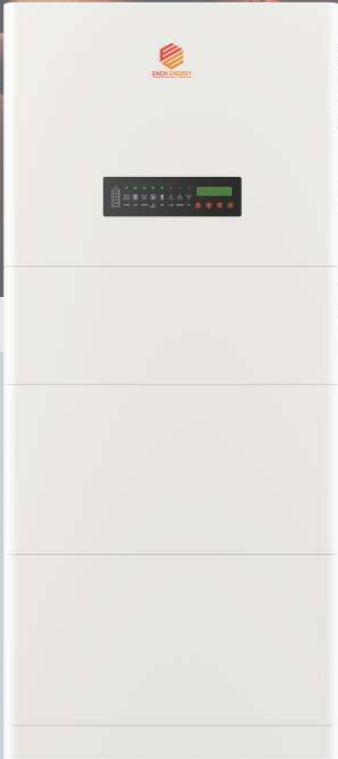
Battery Data(H4)									
Model(KWh)	4.03								
Battery type	LFP								
Nominal Capacity(Ah)	42								
Nominal Energy(KWh)	4.03								
Nominal voltage/range(V)	96/80~108								
Rated Charge/Discharge Current	0.5C/0.5C								
Max Charge/Discharge Current	1C/1C								
Dimension(mm)	630*370*178								
Weight(Kg)	53								
Life Cycle(@25°C)	6000								
Life Time	≥10years								
Operating Temperature(°C)	-20°C~60°C								
Depth of discharge(DoD)	90%								
Ingress protection	IP66								

System Parameter	H4	H8	H12	H16	H20
System schematic					
Qty. of batteries	1	2	3	4	5
Charge/Discharge temperature range	Charge: 0°C to 53°C/Discharge: -10°C to 53°C				
Cycle life	6000				
Nominal voltage(V)	96	192	288	384	480
Battery total energy(KWh)	4.03	8.06	12.09	16.12	20.15
Dimension(W*H*D)	630*1080*178	630*1450*178	630*1820*178	630*2190*178	630*2560*178
Weight(Kg)	93	132	171	210	248

*Series operation capacity with max. 7 units

All In One · ESS
Three Phase · HV · Battery

APHT4K/5K/6K/8K/10K/
12K/15K/18K/20K-H
All In One · ESS



20A
PV Input Current

110%
Unbalanced load

10ms
UPS-level Switching

160%-200%
Back-up overloading@60s

Talented

- 98.6% max. efficiency
- 100-1000V super wide battery voltage range
- Within 10ms UPS-level switching
- Max. 20A PV input current
- 100% full load charge and discharge

Powerful

- 50A/50A charging and discharging current, suitable to middle voltage and high voltage batteries
- 200% Recommended max. PV power input
- Max. 200% back-up output overloading @60s

Friendly

- Smaller cable size and conduit
- Longevity and almost no derating at high temperature
- Wifi and bluetooth connection
- IP66 protection degree

Model	APHT4K APHT5K APHT6K APHT8K APHT10K APHT12K APHT15K APHT18K APHT20K								
Inverter Data									
Battery type	Li-ion								
Battery voltage range(V)	80~800								
Max. charging/discharging current(A)	50/50								
Rated charging current/discharging current(A)	50/50								
Recommended max. PV power(KW)	6.4	8	9.6	12.8	16	19.2	24	28.8	32
Max. input voltage(V)	1000								
MPPT voltage range(V)	100~900								
Max. input current(A)	20/20	20/20/20			20/20/40				
Max. short circuit current(A)	30/30	30/30/30			30/30/60				
MPPT number	2	3			3				
Strings number per MPPT	1/1	1/1/1			1/1/2				
Rated grid voltage/range(V) (L/N/PE)	220/380, 230/400, 240/415, 312~520								
Rated output power(KW)	4	5	6	8	10	12	15	18	20
Rated/Max. apparent output power(KVA)	4/4	5/5	6/6	8/8	10/10	12/12	15/15	18/18	20/20
Rated grid output current(A)	5.8	7.2	8.7	11.6	14.5	17.4	21.7	26.1	29
Max. output current(A)	5.8	7.2	8.7	11.6	14.5	17.4	21.7	26.1	29
Peak apparent output power(KW), for 60S	8	10	12	16	20	20	22.5	22.5	24
Back-Up/UPS switch time(ms)	<10								
Rated frequency(Hz)	50/60								
Max. efficiency	98.6%								
EU efficiency	98.1%								
Topology	Transformerless								
Dimensions(mm) (W*H*D)	630*450*178								
Weight(Kg)	31								
General Data									
Shell material	Aluminium alloy								
Operating ambient temperature range	-25~60 C								
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/IEEA, C10:2019, PPDS:2021, Tor+R25, IEC61683, IEC61727&62161 ABNT NBR 16149, ABNT NBR 16150, VDE-AR-N 4105, CEI0-21, RD1699								
Safety/EMC standard	IEC-62109-1/-2, IEC-61000-6-1/-2/-3, NB/T32004								
DC connection	MC4/D4								
Communications	Wifi(2.4G), 4G, GPRS, Bluetooth, RS485,CAN								

Battery Data(H5-EVE)

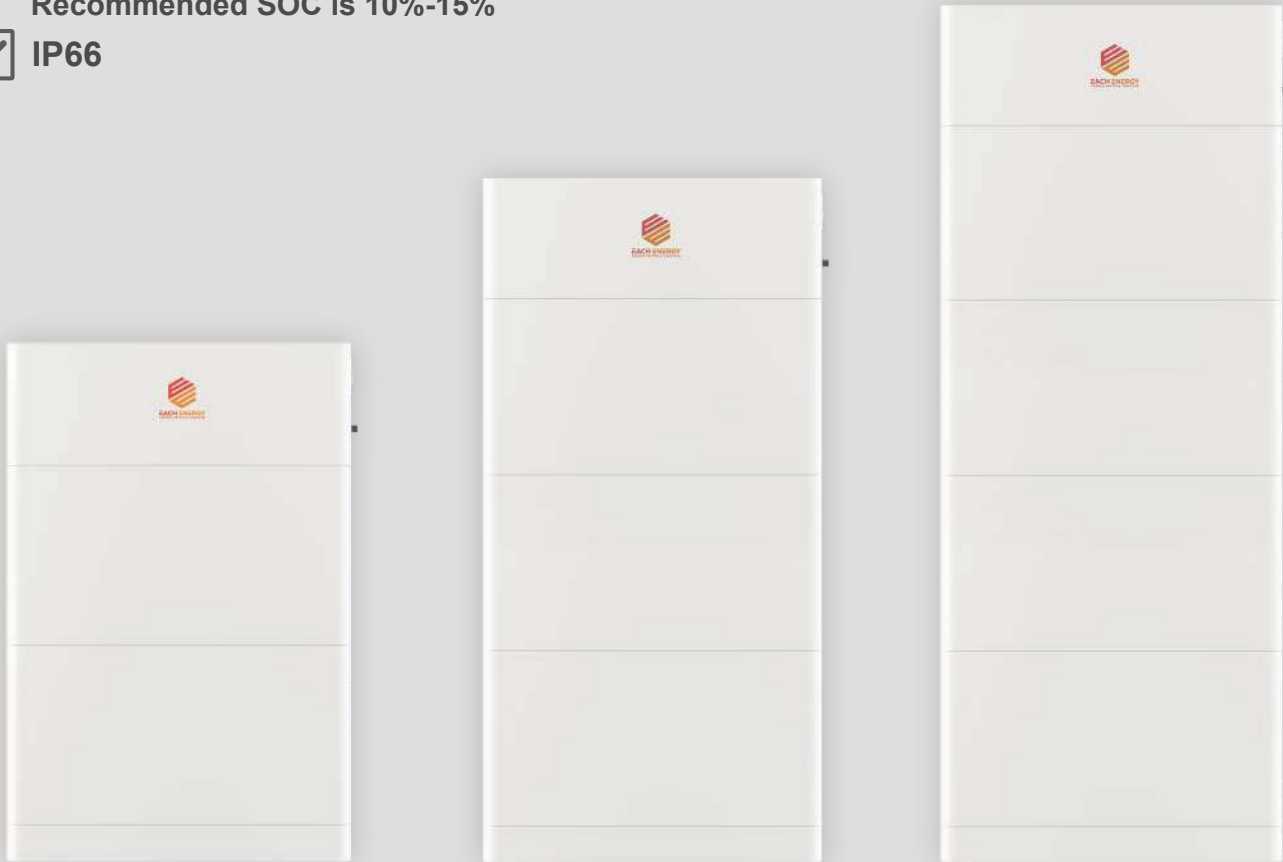
Model(KWh)	5.12
Battery type	LFP
Nominal Capacity(Ah)	100
Nominal Energy(KWh)	5.12
Nominal voltage/range(V)	51.2/40-57.6
Rated Charge/Discharge Current	0.5C/0.5C (50/50)
Max Charge/Discharge Current	1C/1C (100/100)
Dimension(mm)(W*H*D)	630*630*178
Weight(Kg)	47
Life Cycle(@25°C)	6000 (90%DOD, 0.5C charge/0.5C discharge, EOL70%)
Life Time	≥10years (90%DOD, 0.5C charge/0.5C discharge, EOL70% @25°C)
Operating Temperature(°C)	-20°C~60°C
Depth of discharge(DoD)	90%

System Parameter	H10-EVE	H15-EVE	H20-EVE
System schematic			
Qty. of batteries	2	3	4
Charge/Discharge temperature range	Charge: 0°C ~50°C/Discharge: -10°C ~50°C		
Cycle life	6000 (90%DOD, 0.5C charge/0.5C discharge, EOL70%)		
Nominal voltage(V)	102.4	153.6	204.8
Battery total energy(KWh)	10.24	15.36	20.48
Dimension(W*H*D)	630*1530*178	630*1900*178	630*2270*178
Weight(Kg)	114	161	208

*Series operation capacity with max. 12 units

H4 Battery

- ✓ Our batteries can **black start** when SOC(State of charge) is 0.
Recommended SOC is 10%-15%
- ✓ IP66



Flexible

Single module 96V, 42Ah;
Stackable design, Easy to install



Safe&Reliable

More safety; Longer life cycle
Flexible and scalable



Stabilizable

Longevity; Intelligent BMS;
Multiple fire protection system

RESIDENTIAL&COMMERCIAL LFP ENERGY STORAGE BATTERY

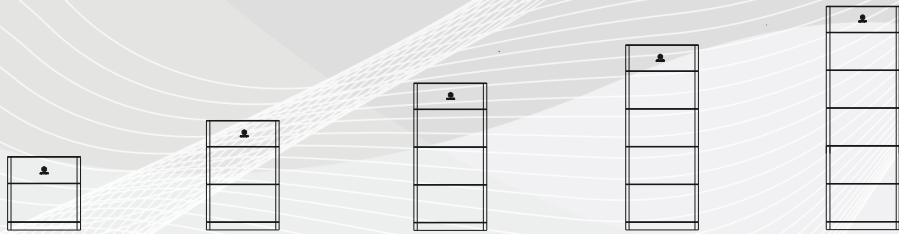


Battery Data(H4)

Model(KWh)	4.03
Battery type	LFP
Nominal Capacity(Ah)	42
Nominal Energy(KWh)	4.03
Nominal voltage(range(V)	96/80~108
Rated Charge/Discharge Current	0.5C/0.5C
Max Charge/Discharge Current	1C/1C
Dimension(mm)	630*370*178
Weight(Kg)	53
Life Cycle(@25°C)	6000
Life Time	≥10years
Operating Temperature(°C)	-20°C~60°C
Depth of discharge(DoD)	90%
Ingress protection	IP66

System Parameter	H4	H8	H12	H16	H20
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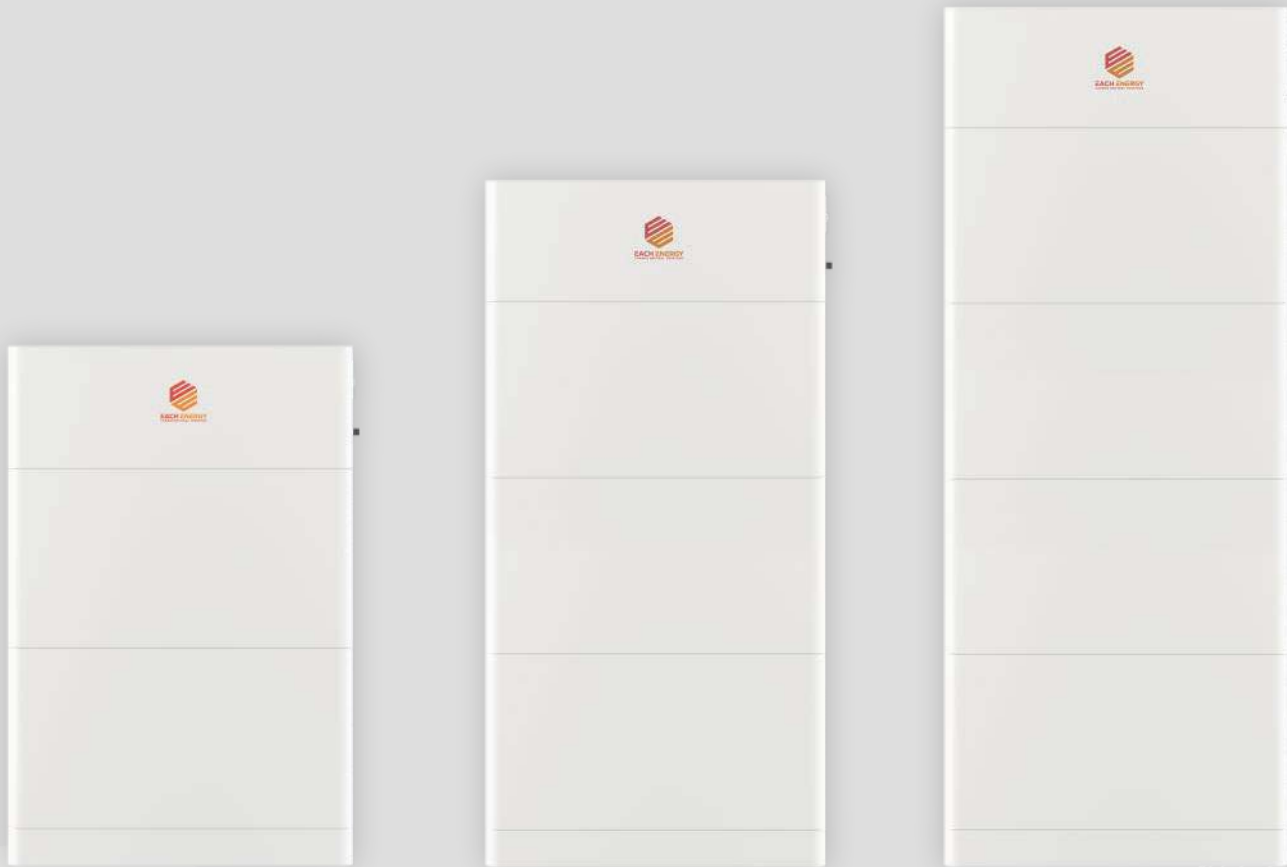
System schematic



Qty. of batteries	1	2	3	4	5
Charge/Discharge temperature range	Charge: 0°C to 53°C/Discharge: -10°C to 53°C				
Cycle life	6000				
Nominal voltage(V)	96	192	288	384	480
Battery total energy(KWh)	4.03	8.06	12.09	16.12	20.15
Dimension(W*H*D)	630*630*178	630*1000*178	630*1370*178	630*1740*178	630*2110*178
Weight(Kg)	53	92	131	170	208
Certification &Safety Standard	UN38.3/MSDS/IEC62619/EN61000-6-1-3				

*Series operation capacity with max. 7 units

H5 Battery



Flexible
Single module 51.2V, 100Ah;
Stackable design, Easy to install



Safe&Reliable
More safety; Longer life cycle
Flexible and scalable



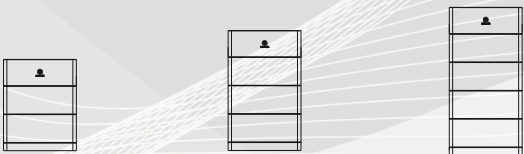
Stabilizable
Longevity; Intelligent BMS
Multiple fire protection system

RESIDENTIAL&COMMERCIAL LFP ENERGY STORAGE BATTERY



Battery Data(H5-EVE)			
Model(KWh)	5.12		
Battery type	LFP		
Nominal Capacity(Ah)	100		
Nominal Energy(KWh)	5.12		
Nominal voltage(range(V)	51.2/40-57.6		
Rated Charge/Discharge Current	0.5C/0.5C (50/50)		
Max Charge/Discharge Current	1C/1C (100/100)		
Dimension(mm)(W*H*D)	630*630*178		
Weight(Kg)	47		
Life Cycle(@25°C)	6000 (90%DOD, 0.5C charge/0.5C discharge, EOL70%)		
Life Time	≥10years (90%DOD, 0.5C charge/0.5C discharge, EOL70% @25°C)		
Operating Temperature(°C)	-20°C~60°C		
Depth of discharge(DoD)	90%		
System Parameter	H10	H15	H20

System schematic



Qty. of batteries	2	3	4
Charge/Discharge temperature range	Charge: 0°C ~50°C/Discharge: -10°C ~50°C		
Cycle life	6000 (90%DOD, 0.5C charge/0.5C discharge, EOL70%)		
Nominal voltage(V)	102.4	153.6	204.8
Battery total energy(KWh)	10.24	15.36	20.48
Dimension(W*H*D)	630*1450*178	630*1820*178	630*2190*178
Weight(Kg)	114	161	208

*Series operation capacity with max. 12 units

M10 Battery



Flexible
Single module 96V, 100Ah;
Stackable design, Easy to install



Safe&Reliable
More safety; Longer life cycle
Flexible and scalable



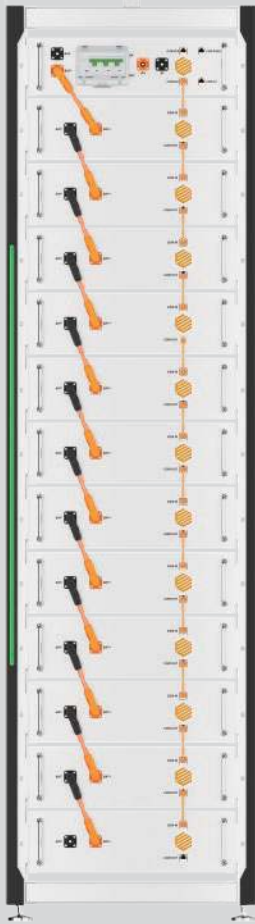
Stabilizable
Longevity; Intelligent BMS;
Multiple fire protection system

RESIDENTIAL&COMMERCIAL LFP ENERGY STORAGE BATTERY



Battery Data(M10)	
Model(KWh)	9.6
Battery type	LFP
Nominal voltage(range(V)	96/80~108
Capacity(Ah)	100
Cycle life	6000
Depth of discharge(DoD)	90%
Dimension(W*H*D)(mm)	630*1010*178
Weight(Kg)	115
Warranty	5 years
Charge/Discharge temperature range	Charge: 0°C to 55°C/Discharge: -20°C to 55°C
Certification &Safety Standard	UN38.3/MSDS/IEC62619/EN61000-6-1-3
Ingress protection	IP66

CH30-60 Battery



Flexible

Single module 51.2V, 100Ah;
Stackable design, Easy to install



Safe&Reliable

More safety; Longer life cycle
Flexible and scalable



Stabilizable

Longevity; Intelligent BMS;
Multiple fire protection system

COMERCIAL-LFP ENERGY STORAGE BATTERY

Battery Model-EVE	CH30	CH40	CH50	CH60
Battery type	LFP			
Nominal Capacity(Ah)	100			
Battery Module Qty In Series (Optional)	6	8	10	12
System Nominal Voltage (V)	307.2	409.6	512	614.4
System Operating Voltage (V)	249.6~350.4	332.8~467.2	416~584	499.2~700.8
System Energy (kWh)	30.72	40.96	51.2	61.44
System Usable Energy (kWh)	27.64	36.86	46.08	55.29
Rated DC Power	30.72	40.96	51.2	61.44
Charge/Discharge Currnet(A)	50(Continuous) / 125(Peak discharge,1min,25℃)			
Operating Temperature (℃)	Charge: 0~55/Discharge: -20~55			
Communication Port	CAN2.0/ RS485			
Humidity	5%~85%RH			
Altitude(m)	≤3000			
IP Rating	IP20			
Dimension(W*H*D)	600*462*2175			
Weight Approximate (kg)	306	408	510	612
Installation Location	Rack Mounting			
Storage Temperature (℃)	0~35			
Recommend Depth of Discharge(DOD)	90%			
Cycle life	≥6000@25±2℃,0.5C/0.5C, EOL70%			
Warranty	10 years			
Certification	CE/IEC62619/VDE2510-50/UN38.3			

*Test conditions: 90% DOD, 0.2C charge & discharge at 25℃,System usable energy may vary due to system configuration parameters.

*The current is affected by temperature and SOC.

*The warranty is due whichever reached first of warranty period or life cycle power.



EET30K-M1-Australia



EET10K-M1-Australia



EES6K-M1-Australia



EES8K-M1-Brazil



EET100K-M1-Brazil



PHS3K-8K-M1



PHS3-8K-M1-Italy



EET80K-M1-China

EET50K-M1-China



PHS3-8K-M1-Italy



APHS5K-M10
Single phase