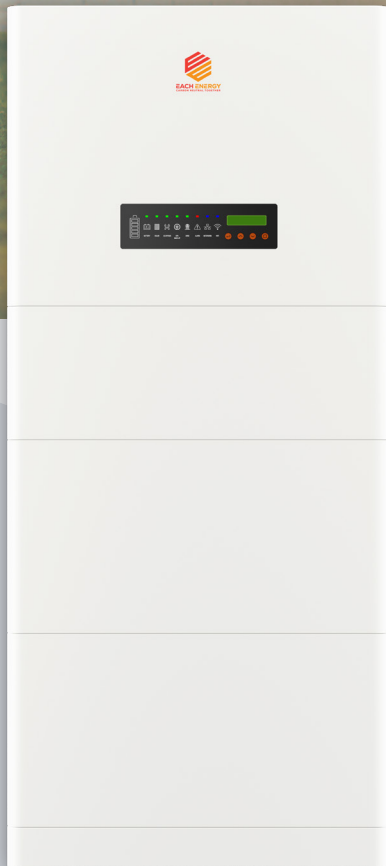


APHS3K/3.6K/4K/ 4.6K/5K/6K/8K-H All In One · ESS



18A
PV Input Current

10ms
UPS-level Switching

21/25A
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

- 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

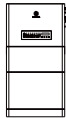


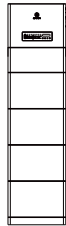
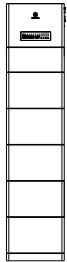
Friendly

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

Model	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, 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*630*178						
Weight(Kg)	53						
Life Cycle(@25°C)	6000						
Life Time	≥10years						
Operating Temperature(°C)	-20°C~60°C						
Depth of discharge(DoD)	90%						

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. 8 units