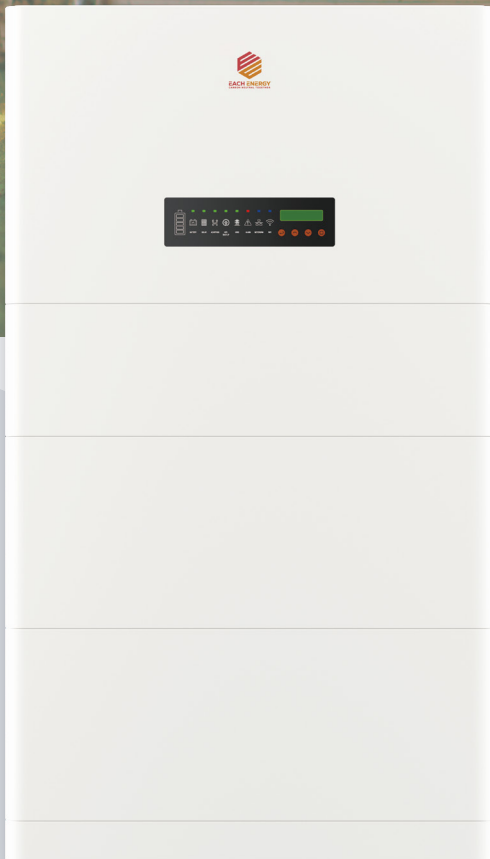


# APHS3K/3.6K/4K/ 4.6K/5K/6K/8K-H All In One · ESS



## **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. 4 units

## **Friendly**

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

**18A**  
PV Input Current

**10ms**  
UPS-level Switching

**21/25A**  
Charging&Discharging

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

Model	APHS3K	APHS3.6K	APHS4K	APHS4.6K	APHS5K	APHS6K	APHS8K
<b>Inverter Data</b>							
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)				740*450*178			
Weight(Kg)				30			

<b>General Data</b>							
Shell material				Aluminium alloy			
Operating ambient temperature range				-25~60 °C			
Ingress protection				IP66			
Cooling concept	Natural convection			Smart fan			
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			

<b>Battery Data(H4)</b>							
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)				740*550*178			
Weight(Kg)				30 (ref)			
Life Cycle(@25°C)				6000			
Life Time				≥10years			
Operating Temperature(°C)				-20°C~60°C			
Depth of discharge(DoD)				95%			

<b>System Parameter</b>							
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)	740*550*178	740*740*178	740*1130*178	740*1420*178	Stack1: 740*1130*178 Stack2: 740*840*178		
Weight(Kg)	30	60	90	120	Stack1: 90 Stack2: 60		