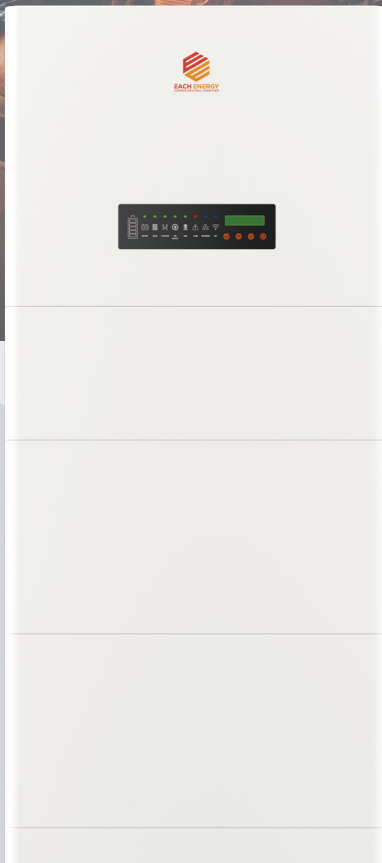


# APHT4K/5K/6K/8K/10K/ 12K/15K/18K/20K-H All In One · ESS



**18A**  
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. 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

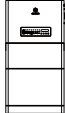
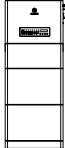


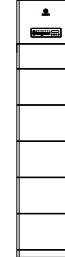
## **Friendly**

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

Model	APHT4K	APHT5K	APHT6K	APHT8K	APHT10K	APHT12K	APHT15K	APHT18K	APHT20K
<b>Inverter Data</b>									
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)	6.4	8	9.6	12.8	16	19.2	24	28.8	32
Max. input voltage(V)	1100								
MPPT voltage range(V)	100~1080								
Max. input current(A)	36/36								
Max. short circuit current(A)	44/44								
MPPT number	2								
Strings number per MPPT	2/2								
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)	40								

<b>General Data</b>									
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/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)	630*630*178								
Weight(Kg)	30								
Life Cycle(@25°C)	6000								
Life Time	≥10years								
Operating Temperature(°C)	-20°C~60°C								
Depth of discharge(DoD)	95%								

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)	30	60	90	120	150

\*Series operation capacity with max. 8 units