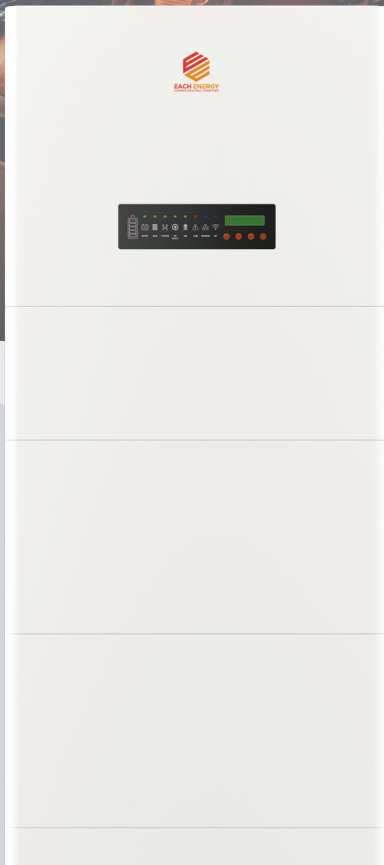


APHT4K/5K/6K/8K/10K/ 12K/15K/18K/20K-H All In One · ESS



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

18A

PV Input Current

10ms

UPS-level Switching

110%

Unbalanced load

160%-200%

Back-up overloading@60S

Model	APHT4K	APHT5K	APHT6K	APHT8K	APHT10K	APHT12K	APHT15K	APHT18K	APHT20K
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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)	6.4	8	9.6	12.8	16	19.2	24	28.8	32
Max. input voltage(V)	1100								
MPPT voltage range(V)	100~1000								
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								


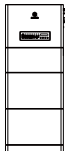


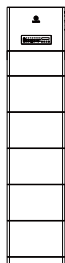
General Data

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/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

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. 8 units