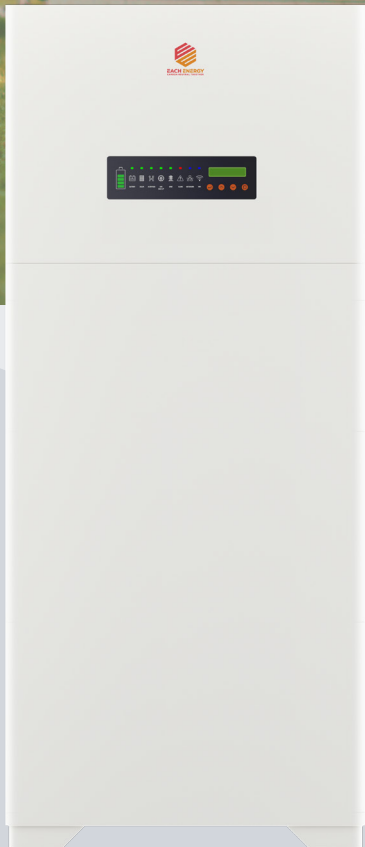


# APHS3K/3.6K/4K/ 4.6K/5K/6K/8K-M All In One · ESS



## **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**

- 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

18A

PV Input Current

10ms

UPS-level Switching

50/60A

Charging&Discharging

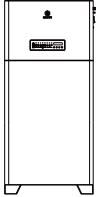
160%-200%

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)	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)		

<b>General Data</b>							
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						

<b>Battery Data(M10)</b>	
Model(KWh)	9.6
Battery type	LFP
Nominal voltage/range(V)	96/(80~103)
Capacity(Ah)	100
Depth of discharge(DoD)	95%
Dimension(W*H*D)(mm)	630*1010*178
Weight(Kg)	115

<b>System Parameter</b>	<b>M10</b>
System schematic	
Qty. of batteries	1
Charge/Discharge temperature range	Charge: 0°C to 53°C/Discharge: -20°C to 55°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)	145
Certification & Safety Standard	UN38.3/MSDS/IEC62619/EN61000-6-1-3