

AHS3K/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
- 100% full load charge and discharge

Powerful

- 50A/60A charging and discharging current, suitable to middle voltage and high voltage batteries
- 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

50/60A

Charging&Discharging

10ms

UPS-level Switching

4

Parallel operation

160%-200%

Back-up overloading@60S

Model	AHS3K	AHS3.6K	AHS4K	AHS4.6K	AHS5K	AHS6K	AHS8K
Inverter Data							
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						
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, for 60S(KW)	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)	610*450*178						
Weight(Kg)	30						

General Data	
Shell material	Aluminium alloy
Operating ambient temperature range	-25~60 °C
Ingress protection	IP66
Cooling concept	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

Battery Data(M10)	
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)	610*550*178
Weight(Kg)	115

System Parameter				
System schematic				
Qty. of batteries	1	2	3	4
Charge/Discharge temperature range	Charge: 0°C to 53°C/Discharge: -10°C to 53°C			
Cycle life	6000			
Nominal voltage/range(V)	96/80~103			
Battery total energy(KWh)	9.6	19.2	28.8	38.4
Dimension(W*H*D)	610*1290*178	610*1870*178	Stack1: 610*1580*178 Stack2: 610*1130*178	Stack1: 610*1870*178 Stack2: 610*1420*178
Weight(Kg)	145	245	Stack1: 195 Stack2: 165	Stack1: 245 Stack2: 215