

All-in-one Three Phase ESS

AHW-6~10KTHD-G1

「6/7/8/10kW | 7.68~25.6kWh」



Features

1.5

Oversizing Ratio

DC/AC ratio up to 150%

2

MPPT Channels

Flexible PV input with 2 MPPTs

16A

Max. PV Input Current

String current up to 16A, MPPT current up to 32A

100%

Unbalanced Output

100% three-phase unbalanced output

10ms

Seamless Switchover

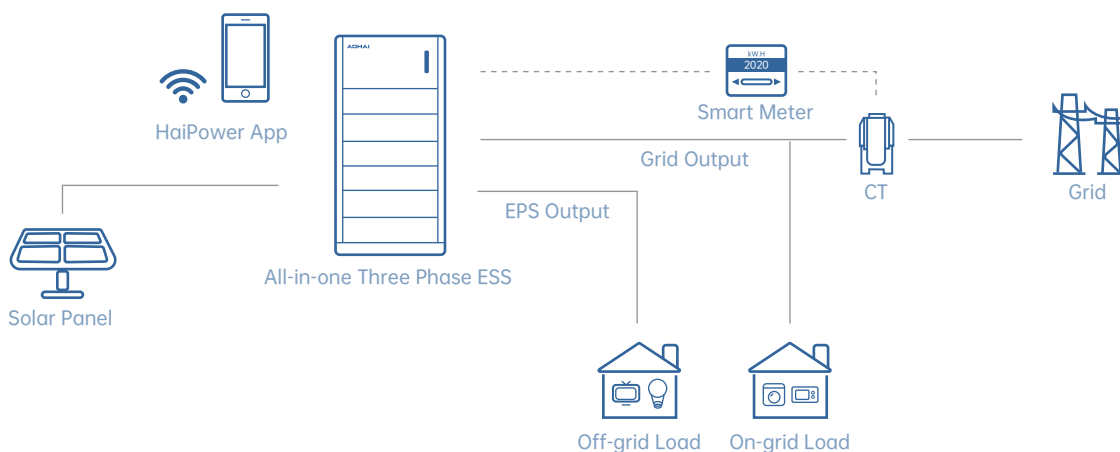
UPS level switching time < 10ms

25A

Max. Charge / Discharge Current

Battery charge / discharge current up to 25A

Energy Storage Solution



Specifications

Model

AHW-6~10KTHD-G1

System Parameter

Inverter Module	AHW-6~10KTHD-G1							
Number of Inverter Modules	1							
Battery Module	AS-2.56HD-GL1							
Number of Battery Modules	3	4	5	6	7	8	9	10
Battery Energy	7.68kWh	10.24kWh	12.8kWh	15.36kWh	17.92kWh	20.48kWh	23.04kWh	25.6kWh
Operating Voltage Range	129.6V~168.48V	172.8V~224.64V	216V~280.8V	259.2V~336.96V	302.4V~393.12V	345.6V~449.28V	388.8V~505.44V	432V~561.6V
Max. Charge / Discharge Current	25A							
Ingress Protection	IP65							
Operating Temperature Range	-10°C~45°C							
Relative Humidity	5%~95%							
Installation	Floor standing							
Noise Emission	< 35dB							
Cooling Method	Natural cooling							
Altitude	≤ 3000m (> 2000, derating)							
Dimension of the System (W*H*D)	650*1320*240mm	650*1480*240mm	650*1640*240mm	650*1320*240mm 650*570*240mm	650*1480*240mm 650*570*240mm	650*1640*240mm 650*570*240mm	650*1640*240mm 650*730*240mm	650*1640*240mm 650*890*240mm
Dimension of High Voltage Box (W*H*D)	650*250*240mm							
Dimension of Base (W*H*D)	650*90*240mm							
Display	LED & App							
Communication	RS485 / CAN / USB / WIFI / GPRS							
Product Ordering Model	[Inverter:AHW-6~10KTHD-G1] + N*[AS-2.56HD-GL1] + High Voltage Box + Base							

Inverter Module

AHW-6KTHD-G1

AHW-7KTHD-G1

AHW-8KTHD-G1

AHW-10KTHD-G1

Solar Input Data

Max. PV Input Power	9000W	10500W	12000W	15000W
Max. Input Voltage	1000V			
Start-up Voltage	120V			
Nominal Input Voltage	600V			
MPPT Operating Voltage Range	120V~1000V			
Max. Input Current per MPPT	16A / 16A			
Max. Short Circuit Current per MPPT	20A / 20A			
Number of MPPT	2			
Number of Strings per MPPT	1/1			

AC Input Data

Nominal Input Voltage	230 / 400V, 3L / N / PE			
Input Voltage Range	310V~476V			
Max. AC Current	9.1A	10.6A	12.2A	15.2A
Max. Apparent Power	6000VA	7000VA	8000VA	10000VA
AC Frequency / Range	50 / 45~55Hz, 60 / 55~65Hz			

Battery Data

Battery Voltage Range	100V~600V			
Max. Charge / Discharge Current	25A			
Max. Charge / Discharge Power	6000W	7000W	8000W	10000W
Number of Battery Input	1			

AC Output Data (On Grid)

Nominal Output Power	6000W	7000W	8000W	10000W
Max. Apparent Output Power	6000VA	7000VA	8000VA	10000VA
Nominal Output Voltage	230 / 400V, 3L / N / PE			
Nominal Grid Frequency / Range	50 / 45~55Hz, 60 / 55~65Hz			
Max. Output Current	9.1A	10.6A	12.2A	15.2A
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
THDi (nominal power)	< 3%			

AC Output Data (Back-up)

Nominal Output Power	6000W	7000W	8000W	10000W
Max. Apparent Power	6000VA	7000VA	8000VA	10000VA
Nominal AC Voltage	230 / 400V, 3L / N / PE			
Nominal Grid Frequency	50 / 60Hz			
Nominal Output Current	9.1A	10.6A	12.2A	15.2A
Switch Time	< 10ms			
THDv (@linear load)	< 3%			

Mechanical Data

Dimension (W*H*D)	650*500*240mm
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Battery Module

AS-2.56HD-GL1

Single Battery Module Spec

Battery Type	LEP
Battery Module Energy	2.56kWh
Battery Module Voltage	51.2V
Dimension (W*H*D)	650*160*240mm