

All-In-One Ess Power-X series (coming soon)

Models:
AOW-5KhDL7S-G1
AOW-10KhDL7S-G1
AOW-10KhDH10T-G1
AOW-20KhDH10T-G1



Safest
ATL LiFePO4 Battery



10+5years
warranty



<30min installation
by plug-and-play
design



Noise free
≤25dB

Technical DataSheet

	AOW-5KhDL7S-G1	AOW-10KhDL7S-G1	AOW-10KhDH10T-G1	AOW-20KhDH10T-G1
System Parameters				
Number of batteries	1	2	2	4
Battery total energy	5.12kWh	10.24kWh	10.24kWh	20.48kWh
Conversion time(bypass and inverter)	<20ms	<20ms	<20ms	<20ms
Noise level	25db	25db	25db	25db
Weight	92kg	152kg	182kg	332kg
Dimension (W*H*D)	560*1080*260	560*1650*260	560*1780*320	560*1780*320 560*1260*320
Operating temperature range	-25°C ~+50°C	-25°C ~+50°C	-25°C ~+50°C	-25°C ~+50°C
Altitude	4000m	4000m	4000m	4000m
Display	LED & APP	LED & APP	LED & APP	LED & APP
Input data(PV)				
Max. DC voltage	550V	550V	1000V	1000V
Start voltage	120V	120V	120V	120V
Nominal voltage	360V	360V	600V	600V
MPP work voltage range	120V-550V	120V-550V	120V-1000V	120V-1000V
Number of independent MPP trackers	2	2	2	2
No. of PV strings per MPP trackers	1	1	1	1
Max. input current per MPP trackers	16A	16A	16A	16A
Max. short-circuit current per MPP trackers	20A	20A	20A	20A
Max. input power	10800W	10800W	15000W	15000W
Output (AC)				
AC nominal power	7000W	7000W	10000W	10000W
Max. AC apparent power	7000VA	7000VA	10000VA	10000VA
Nominal AC voltage/range	230V ; 180Vac-270Vac	230V ; 180Vac-270Vac	230V/400V ; 310Vac-476Vac	230V/400V ; 310Vac-476Vac
AC grid frequency/range	50/60,±5Hz	50/60,±5Hz	50/60,±5Hz	50/60,±5Hz
THDI	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Three phase	Three phase
Stand alone(AC power)				
AC nominal output power	7000W	7000W	10000W	10000W
Max. AC apparent power	7000VA	7000VA	10000VA	10000VA
Nominal AC voltage	230V	230V	230V	230V
Nominal AC frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Max. output current	31A	31A	15.2A	15.2A
BAT data (DC)				
Battery voltage range	42-59V	42-59V	100-550V	100-550V
Recommended battery voltage	51.2V	51.2V	400V	400V
Max. charging / discharging current	120A/120A	120A/120A	25A/25A	25A/25A
Continuous charging / discharging power	6000W	6000W	10000W	10000W
Type of battery	Lithium ion battery	Lithium ion battery	lithium ion battery	lithium ion battery
Efficiency				
Max. efficiency	0.972	0.972	0.982	0.982
MPPT efficiency	≥99.5%	≥99.5%	≥99.5%	≥99.5%