

## Energy Storage System

AEL5100 / AEL10200

AEI3600 / AEI5000

### Features:

- All in one design- High efficiency up to 97.6%
- IP65 protection- String monitoring optional
- Easy installation Digital controller
- DC/AC Surge protection Reactive power controller



### Specifications

Model	AEL5100 -3	AEL10200-3
<b>Electrical</b>		
Energy Capacity	5.12kWh	10.24kWh
Battery type	LFP (LiFePO4)	
Depth of Discharge (DoD)	90%	
Rated voltage	51.2V	
Operating Voltage Range	44.8~57.6V	
Internal Resistance	≤ 20 mΩ	
Number of cycles	10000cycles	
<b>Operation</b>		
Max. Charging Current	50A (0.5C)	100 A (0.5C)
Max. Discharging Current	80 A (0.8C)	100 A (0.5C)
Operating temperature range	0°C~+55°C(Charging)/-20°C~+55°C(DisCharging)	
Storage temperature range	-30°C~+60°C	
Humidity	0% ~ 90%	
<b>BMS</b>		
Modules Connection	max. 4 batteries in parallel	
Power Consumption	<2 W	
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement	
Communication	CAN and RS-485 compatible	
Ventilation type	Passive and Active Cooling	
<b>Physical</b>		
Weight (Kg)	60	120
Dimension (W×H×D)mm	540*490*240	540*940*240
IP Protection	IP65	
Warranty	5 Year Product Warranty, 10 Year Performance Warranty	
<b>Certificate</b>		
Safety(Cell)	IEC 62619、UL 1973、UN 38.3	

\*Product specifications are subject to change without further notice \*\*Image for illustrative purposes only

Model	AEI3600 -3	AEI5000-3
<b>Inverter general</b>		
Max. PV Input power	4800W	6500W
Max. PV Input voltage	580V	
MPPT Range	120V ~550V	
Rated Input voltage	400V	
MPPT Range for full load	184~550V	230~550V
Number of MPPT	2	
Max. PV input current	13A*2	
Isc PV	16A*2	
<b>AC output (on-grid)</b>		
Rated AC output power	230Vac	
Output voltage range	150V ~280V	
Output frequency range	50 / 60Hz(±5Hz), (adjustable)	
Rated Input Current	31A	
Max. Current from Utility Grid	32A	
Max. Apparent Power from Utility Grid	7360VA	
Max. Power Output to Utility Grid	3680W	4999W
Max. Current Output to Utility Grid	16A	21.7A
AC Output Connection	L+N+PE, Transformerless	
Power factor (cosφ)	(0.8 leading ~ 0.8 lagging), (adjustable)	
THDi	<3%	
<b>AC output (back-up)</b>		
Rated Output Voltage	230 ( Fluctuation range±2% )	
Rated Output Frequency	50/60Hz ( Fluctuation range±0.2% )	
Rated output Current	16A	20A
Rated Output Power	3680W	4600W
Max. Output Apparent Power	4000VA	5000VA
THDv	<2% ( Linear load )	
Automatic Switch Time	<20ms	
OverLoad	6900VA 10sec	
Off-line AC disconnection	Bipolar miniature circuit breaker (25A/pole)	
<b>Battery Input</b>		
Rated Battery Voltage	51.2V	
Battery Voltage Range	40~60V	
Max. Discharging Current	80A	100A
Max. Charging Current	50A	100A
Battery Switch	Bipolar DC Switch (125A/Pole)	
<b>Inverter general</b>		
Dimension (W×H×D)mm	540*640*240	
Weight (Kg)	35	
Ambient Temperature Range [°C]	-20°C~+60°C (Rated Power@45°C )	
Relative Humidity	0~95% (No condensation)	
Protection Degree	IP65	
Topology	High Frequency Isolation	
Cooling	Natural Convection	
Noise Emission [dB]	<25	
Display	LCD/APP	
Communication Interface	RS485/CAN2.0/WIFI	
Altitude	≤2000m	
Overvoltage Category	II(DC side), III(AC side)	
Max. Conversion Efficiency (From Battery)	94.0%	
Max. Conversion Efficiency (From PV)	97.6%	
Euro Efficiency	97.0%	
MPPT Efficiency	99.5%	
Protection Function	Short Circuit Protection, AC Leakage Fault Protection, Grounding Fault Protection, Anti-islanding Protection, Overload Protection、 Surge Protection 、 DC Polarity Protection	
<b>Certification &amp; standard</b>		
Grid Regulation	AS/NZS 4777.2, VDE-AR-N4105, VDE0126-1-1	
Safety Regulation	IEC/EN 62109-1&2, IEC62040-1	
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4,EN61000-4-16, EN61000-4-18, EN61000-4-29	