

All-in-One Batteries

Power your home for a fraction of the cost. By running your home on the PowerCool All-in-One's substantial battery power, you can save circa 85% on your energy bills. And, in the process, you can drastically cut your home's carbon emissions.

Our advanced battery technology enables households to access renewable energy, gain power self-sufficiency and make consciously sustainable decisions.





Flexibility

With the option to connect multiple units, you can scale your energy storage capacity as your needs grow.



Touch-safe

No messy wires, no hot parts, and no clutter. The All-in-One is touch-safe for the whole family.



Modular

Robust but light. With its modular design, the All-in-One is built with easy handling and fitting in mind.



Long-lasting

We use high-capacity, energy-dense cell chemistry that increases the life of your



Weatherproof

Water resistant, installable indoors or outdoors, and durable enough to function between 0-55°C.



Adaptable

Two inverter options: a 3.6kW for homes with lower power demands and a 5kW for those who need more



Technical specification

201	Ares 3.6KAL	Ares 5KAL		
PV Input	57111	7.5 I.W.		
Max. Input Power	5.4 kW	7.5 kW		
Max. PV Voltage	550 V			
MPPT Range		80–500 V		
Full MPPT Range	110 - 500 V	150 – 500 V		
Normal Voltage		360 V		
Startup Voltage	100 V			
Max. Input Current	18.5 x 2 A			
Max. Short Current	26 x 2 A			
No. of MPP Tracker / No. of PV String		2/2		
Battery Port				
Max. Charge/Discharge Power	3.6 kW	5.0 kW		
Max. Charge/Discharge Current	80 A	120 A		
Battery Normal Voltage	51.2 V			
Battery Voltage Range	40 - 60 V			
Battery Type	Li-ion / Lead-acid etc.			
AC Grid				
Max Coninuous Current	17.0 A	23.0A		
Max Coninuous Power	3.6 kVA	5.0 kVA		
Nominal Grid Current	16.4 / 15.7 A	22.8 / 21.8 A		
Nominal Grid Voltage	198 to 242 @ 220 / 207 to 253 @ 230 V			
Nominal Grid Frequency	50 / 60 Hz			
Power Factor	0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)			
Current THD	•			
AC Load Output(Back-up)				
Max Coninuous Current	17.0 A	23.0 A		
Max Coninuous Power	3.6 kVA	5.0 kVA		
Max Peak Current (10min)	24.6 / 23.5A	34.1 / 32.7A		
Max Peak Power (10min)	5.4 kVA	7.5 kVA		
Nominal AC Voltage L-N	220 / 230 V			
Nominal AC Frequency	50 / 60 Hz			
Switching Time	< 10 ms			
Voltage THD	<30			
Efficiency	07.0 %	00.1 %		
CEC Efficiency	97.0 %	98.1 %		
Max. Efficiency	97.6 %	98.1 %		
PV to Bat. Efficiency	98.1 %	98.1 %		
Bat. between AC Efficiency	96.8 %	968% .		
Protection				
PV Reverse Polarity Protection		Yes		
Over Current/Voltage Protection	Yes			
Anti-Islanding Protection	Yes			
	Yes			
			Yes	
		Yes		
Residual Current Detection		Yes Yes		
Residual Current Detection Ground Fault Monitoring Insulation Resister Detection		Yes Yes Yes		
AC Short Circuit Protection Residual Current Detection Ground Fault Monitoring Insulation Resister Detection PV Arc Detection		Yes Yes		

		Ares 3.6KAL	Ares 5KAL	
General Data				
Dimensions (W*H*D)		600 x 430 x 210 mm		
Weight		25 kg		
Fopology		Transformerless		
Cooling		Intelligent Fan		
Relatively Humidity		0-100 %		
Operating Temperatu	ire kange	e -25 to 60 °C ≤ 2000° m		
		< 25 dB		
Standby Consumption	•	< 25 dB < 10 W		
Mounting				
Communication with	PSD	Wall Bracket SUNSPEC		
Display & Communica		LCD LED R		
Certification & Appro			D, LED, RS485, CAN, Wi-Fi, GPRS, 4G	
EMC		NRS097, G98/G99, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2 EN61000-6-2, EN61000-6-3		
Battery Cell Tec	hnology	PowerCool-LFP-VLV		
Number of Pack		2pcs	4pcs	
Total Energy*		10.24 kWh	20.48 kWh	
Jsable Energy*		9.72 kWh	19 45 kWh	
oltage Range		44.8 ~ 57.6 Vd.c		
Nominal Voltage		51.2 V		
Max. Charge Voltage		57.6 V		
Max. Continuous Charging Current		100 A	160 A	
Max. Continuous Discharge Current		100 A	160 A	
OOD		95 %		
Communication		CAN		
Dimension(L*W*H)		(600±2) * (215±2) * (680±5) mm	(600±2) * (215±2) * (1320±9) mm	
Net Weight		(97±4) kg	(191±6) kg	
Operating Condition		Indoor or outdoor		
Operating	Charging	0~55 ℃		
Temperature	Discharging	0~55℃		
Humidity		15% ~ 85% (No Condensation)		
Cooling Type		Natural		
P Rating		IP66		
Installation Method		Stacked installation		
Warranty		10 years (5 free warranty + 5 paid warranty)		
		IEC62619,IEC63056,IEC61000-6-1,IEC61000-6-3,IEC62477-1,IEC60730,IEC62040,UN38.3,MSDS		

Testing conditions based on temperature 25°C at the beginning of life.

^{*}Total Energy/Usable Energy measured under specific conditions from PowerCool-LFP 0.2C CC-CV