



Avela Kunstor

Hybrid ALL-IN-ONE Cabinet

Features



Safety & Efficiency

- Intelligence liquid cooling system: 314 Grade-A cells, temperature difference $< 4^{\circ}\text{C}$, service life > 12 years.
- Multi-layer protection covering cells, packs and cabinets, built with alarms, explosion relief, smoke detection and smart BMS.



Integrated Design

- All-in-one design, connection of PV and loads directly, reducing equipment and lowering costs.
- Floor space $< 1.6\text{m}^2$, modular installation.



Smart Management

- Supports multiple operation modes including peak shaving and valley filling, self-consumption, and battery priority
- Remote cloud platform monitoring and early warning



Multi-scenario Application

- Supports up to 6 units in off-grid parallel connection and 24 units in grid-tied parallel connection, covering a wide power range.
- IP55-rated with C5 corrosion protection design, suitable for outdoor installation.
- Supports 2h/4h system.

COMPANY	SKYWORTH ENERGY STORAGE
ADD	A606, Skyworth Building
	Gaoxin 1s Rd, Nanshan, Shenzhen
	518053 CHINA
WEB	www.skyworthes.com

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PRODUCT DATASHEET

Battery Parameters

Battery Type	Lithium-ion
Battery Module Capacity	52.25 kWh
Cell Type	LFP 314Ah
Number of Modules	5
Nominal Capacity	261.24kWh
Nominal Voltage	832V
Voltage Range	702~936V
C Rating	0.25C/0.5C
Depth of Discharge (DoD)	90%
Round Trip Efficiency(RTE)	>92%
SPD Level	Type II
Dimensions (W×H×D)	1100*2050*1400mm
Weight	<3.2T
Installation Environment	Outdoor
Ingress Protection	IP55
Corrosion Resistance Rating	C5
Operating Humidity Range	5%~95% (non-condensing)
Operating Temperature Range	-20°C~+50°C
Max. Operating Altitude	≤3000m (>2000m derating above 2000 m)
Communication Interface	CAN/LAN
Communication Protocol	CAN;TCP
Cooling Method	Liquid Cooling
Certifications	IEC62619, IEC61000, UN38.3, MSDS, VDE2510

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Hybrid Invert Parameters

PV Port

Max. Input Power	250kWp
Max. PV Open Circuit Voltage	1000 Vdc
MPPT Operating Voltage Range	150~950V
Startup Voltage	180V
MPPT Count / Strings per MPPT	10/2
Max. Input Current	42A*10

Battery Port

Battery Type	Li-ion Battery
Battery Voltage Range	680~1000V/705~1000V (3P+N+PE)
Max. Charge/Discharge Current	100A*2 or 200A
Number of Battery Branch	2 or 1 (combined)

Grid Port (GRID)/Smart Load/Generator/Inverter Port

Rated Voltage	380V/400V/415V, 3P+PE(+N)
Rated Grid Frequency	50/60 Hz
Max. Input Current	300A
Rated Output Power	125kW
Max. Output Power	137.5kVA
Rated Output Current	89.9A/180.4A/173.9A
Max. Output Current	208.9A/198.5A/191.3A
THDi	<2%
PF	>0.99, -0.8 leading ~ 0.8 lagging

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AC Backup

Rated AC Voltage	380V/400V/415V, 3P+PE(+N)
THDu	<2%
Rated Frequency	50/60 Hz
Rated AC Output Power	125KW
Max. AC Output Power	137.5kVA
Overload Capacity	150%@10s
Rated Output Current	189.9A
Max. Output Current	208.9A
Transfer Time	<10ms

Efficiency

Max. Efficiency	97.8%
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System

Number of Parallel Connection	≤6
Unbalancing Capacity	100%
Feature & Protection	Over-current Protection, Under-voltage Protection, Over-temperature Protection, Anti-islanding Protection, AC Short-circuit Protection, Residual Current Protection, DC Reverse Protection, DC Insulation Detection, SPD (DC Type II / AC Type II), AFCI (Optional)
Dimensions (W)x(H)x(D)	971.5x880x311mm
Weight	<150kg
Protection Class	Class I
Ingress Protection	IP66
Operating Temperature Range	-40°C~60°C (>derating above 50°C)
Operating Humidity Range	0~100% (non-condensing)
Cooling Method	Smart air cooling
Max. Operating Altitude	4000m (>3000m derating above 3000m)
Communication	Ethernet / RS485 / CAN / 4G (optional) / WiFi (optional)