

Low Voltage Battery 16 kWh

AP-L Series



Model:
APL8.0D-S2



Easy-to-install

- Plug-and-play design for simplified installation
- Stackable design; easily installed
- Low-profile design for easier installation; single tower supports stacking of up to 3 systems for a total of 48 kWh
- Expandable up to 241 kWh



Safe & reliable

- Built-in emergency fire suppression module
- IP66 rated design for indoor and outdoor use
- Featuring durable LFP technology together with safety-enhanced battery management system designed for precise diagnostics



User-Friendly

- 5 selections for operating (LED) indicator via Solplanet App
- Compact design fits for narrow spaces like garages and walkways

Technical Datasheet

System Data	System model	APL8.0D-S2
	Master battery module	APL8.0M
	Slave battery module	APL8.0S
	Cell type	LiFePO4
	Rated capacity	314 Ah
	Nominal energy ¹	16.08 kWh
	Usable energy ²	13.92 kWh
	Nominal voltage	51.2 V
	Operating voltage range	40 V - 58.4 V
	Recommend charge / discharge current	160 A
	Max. charge / discharge current	160 A
	Rated DC power	8.19 kW
	Rated charge / discharge power	8.19 kW
	Max. charge / discharge power	8.19 kW
General Data	Dimensions (W / D / H ⁴)	800 / 300 / 520 mm
	Weight	125.5 kg
	Installation location	Indoor / outdoor
	Mounting method	Floor mounted
	Operating temperature range	Charge: 0 °C ~ 55 °C Discharge: -20 °C ~ 55 °C
	Storage temperature range	-20 °C ~ 60 °C
	Cooling concept	Natural convection
	Protective class	II
	Degree of protection	IP66
	Relative humidity	5 - 95 % (Non-condensing)
	Max. operating altitude	4000 m (>3000 m derating)
	Communication	CAN
	Country of manufacture	China
	Certificate	IEC 62619, IEC 62040, IEC 60730, IEC 61000, UN 38.3
	Cycle life ³	6000 times

1. Nominal energy is defined under the following conditions: battery voltage 40 V - 60 V, 0.5C charge & discharge at 25 °C.
2. Usable energy is defined under the following conditions: 87 % DOD, 0.2C charge & discharge at 25 °C.
3. Cycle life is defined under the following conditions: 90 % DOD, 0.5C charge & discharge at 25 °C (one cycle a day), EOL 70 %.
4. Battery base not included.

