

SolarCube 2 NEW

Hybrid Balcony Energy Storage System
3.2 kWh capacity per pack, up to 16 kWh



AI Mode

Boost energy savings by **30%***



Zero Energy Waste

with P1 Reader, IR Reader or Smart Meter



Plug and Play

3.2–16 kWh Expandable Capacity



Flexible PV Input with 4 MPPTs

4 MPPTs
3,000 W

2,000 W Backup

Keeps essential devices powered during grid outages



Microinverter Compatibility

Easy integration with existing balcony PV systems



SPECIFICATION

Model		D800-LHC-02	D800-LAS-02
PV	Max. PV Input Power (W)	3000	/
	Number of DC Inputs	4	/
	Number of MPPTs	4	/
	Max. Input Voltage (Vd.c.)	60	/
	MPPT Voltage Range (Vd.c.)	16-60	/
	Max. Input Current (Ad.c.)	18/18/18/18	/
	Max. Input Short-Circuit Current (Adc)	25/25/25/25	/
OFF-GRID	MPPT Efficiency	99%	/
	Nominal Output Voltage (Va.c.)	230	
	Nominal Off-Grid Output Power (W)	2000	
	Max. Off-Grid Apparent Power (VA)	2000	
	Nominal Output Frequency (Hz)	50/60	
	Over-Voltage Protection	YES	
	Short Circuit Protection	YES	
	Over-temperature Protection	YES	
ON-GRID	Max. Power from Microinverter (W)	800	
	Max. AC Current from Microinverter (Aa.c.)	3.5	
	Nominal Output Power to Grid (W)	800	800
	Nominal Apparent Power to Grid (VA)	800	800
	Max. Apparent Power to Grid (VA)	2000*	
	Max. Power from Grid (Battery + Bypass) (W)	2000	
	Grid Connection	L / N / PE	
	Nominal Output Frequency (Hz)	50/60	
	Nominal Output Voltage (Va.c.)	230	
	Power Factor	0.8 Leading ~ 0.8 Lagging (Adjustable)	
BACKUP PERFORMANCE	THDi (at Nominal Power)	<3%	
	Nominal AC Current to Grid (Aa.c.)	3.5	3.5
	Max. AC Current To Grid (Aa.c.)	8.7	
	Grid To Off-grid Transfer Time (ms)	≤10	
GENERAL DATA	Off-grid To Grid Transfer Time (ms)	≤10	
	Dimensions (W × H × D, mm)	480*165*307	
	Weight (kg)	18.7	17.7
	IP Rating	IP65	
	Display	LED Screen / APP / Web	
	Communication	Wi-Fi/Bluetooth	
	Topology	High-Frequency Isolated Topology	
	Noise (dB)	<30	
	Operating Temperature Range (°C)	-20-55	
	Relative Humidity (%)	0-95%	
	Altitude (m)	≤3000	
	Cooling Method	Natural Cooling	
CERTIFICATIONS & STANDARDS	Grid Regulation	EN 50549-1/10, VDE-AR-N4105	
	Safety Regulation	IEC/EN 62109-1/2, EN 18031-1	
	EMC	IEC/EN 61000-6-1/3, EN 301489-1/17, EN 300328, EN 62311	
Battery Model		S32100-02	
BATTERY	Battery Type	LiFePO ₄	
	Single Module Rated Energy (kWh)	3.2	
	Single Cell Nominal Capacity (Ah)	100	
	Maximum Capacity expansion (kWh)	16	
	Max.Charge/Discharge Current (Ad.c.)	70/70	
	Rated Voltage (Vd.c.)	32	
	Cycle Life *	≥8000	
	Operating Temperature Range (°C)	-20-55	
	Dimension (W×H×D, mm)	480*175*307	
	Weight (kg)	30.5	
	Depth of Discharge (DOD)	95%	
	Certification	UN38.3, IEC 62619, EN 61000-6-1/2/3/4	

*Higher output power available under specific configurations (subject to local regulations)

**Test conditions: 0.2C, charge and discharge, 95% depth of discharge (DOD), 70% end of life (EOL)

