



DS400

BIEVC Battery Integrated
Ultra Fast EV Charging
Solution

Energise the Revolution

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DS400: BIEVC Battery Integrated Ultra Fast EV Charging Solution

200 kW Charging Power | 2 Charging Connectors | 175 kWh Battery

The DS400 is a high-capacity charging system engineered for EV charging sites with limited grid supply. Using LFP battery technology and managed through both local and cloud-based EMS, it dynamically balances power between the grid, batteries, EV chargers, and renewable inputs. Its fully liquid-cooled design supports 1P discharge, enabling ultra-fast, high-power charging even where AC grid capacity is limited-making it ideal for high-performance EVs and electric trucks. The DS400 eliminates the need for expensive grid upgrades to enable ultra-fast charging.



Product Highlights

- **Grid-friendly** – 400 kW output with less than 70 kW draw on the grid
- **Versatile** – Runs on-grid or off-grid and supports full bi-directional flow (B2G/B2L) up to 70 kW
- **Flexible** – Modular design enables flexible configuration, connects up to 3 dispensers with 6 charging connectors.
- **Smart energy orchestration** – Built-in Energy Management System (EMS) optimises power allocation and maximises renewable penetration.
- **Safety** – Designed with multiple levels of safety features.

DS400 Data Sheet

400kW/350kWh BES All in One Battery Charger		
AC Grid Interface	AC input voltage	45-65Hz/3-phase+(N) +PE/ 260Vac-530Vac
	AC max input power	70 kW
	AC max output power	70 kW
Electric Vehicle Charging	EV charging point	Max 6 connectors, 3 dispensers with dual-connectors or 6 single overheard connectors
	EV charging power	Max 400kW
	EV charging power transfer	Dynamic power transfer to maximise power efficiency
	EV charging voltage	150V~1000V
PV MPPT Input (Optional, P1)	PV input	Max 2 channels
	PV input	Max 2 * 40kW MPPT
Metering	AC grid side	1 AC energy meter, optional MID meter
HMI	10" TFT touch screen, 2 RGB LED, E-STOP, battery alarm light and beeper	
Dimensions	W: 2800 x H: 2200 x D: 1400 mm	Weight: <6500kg
Power Module Configuration		
Max 12 Power Module Slots for The Configuration	ELMPPT40A	DC2DC converter, 40kW/1kV, MPPT support Max2 * 40kWp solar power input support (optional), replaces 1 x ELACDC35L
	ELDCDC40M	DC2DC converter, 40kW/1kV Max10 * 40kW DC bus discharging power/EV charging power (default configuration)
	ELACDC35L	Bidirectional AC2DC inverter, 35kW/1kV Max2 * 35kW AC feedback power, replaces 1 x ELMPPT40A
Charging Dispenser	DI 250	DI 500
Cooling Type	Air cooling	Liquid cooling
Max Charging Power	250kW	500kW
Max Connection	Max 3 dispensers / 6 connectors working in parallel	
Charging Connector Capacity	CCS2: 250A/500A	
Noise	<60dB @30oC @rated input and output full power	

DS400 Data Sheet (cont)

2* 175kWh Liquid Cooled Battery Rack	
Energy Storage Battery	Two groups 175kWh/285Ah liquid cooled battery rack. Battery volt: 537.6~691.2VDC, 1P discharge, max 1.1P discharge 10 min
High Voltage Control Battery	Two HV control Units
Battery BMS	2 level BMS structure: battery pack BSU + HV control BMU
Thermal Management	Two liquid chilling unit with 8kW refrigerating and 2.5kW heating capacity each
Fire Suppression System	Aerosol fire extinguishing system
Safety Design	Explosion-proof board configuration and fire-proof structure design
Environment Sensor	Water sensor + temperature sensor + humidity sensor + door access sensor + smoke detector + combustible gas detectors
Protection Class	IP67 battery pack, IP55 Battery cabinet area
Certification	Full TUV CE, RCM
Payment Methods Accepted	Optional EFTPOS terminal
Warranty	
2 years (extended warranty available)	