

DS400

**BIEVC Battery Integrated
Ultra Fast EV Charging
Solution**

Energise the Revolution

Address: 1 Warehouse Circuit, Yatala, QLD 4207, Australia

Website: www.eluminaglobal.com

Email: info@eluminaglobal.com

DS400: BIEVC Battery Integrated Ultra Fast EV Charging Solution

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 – 400kW 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 70kW
- Flexible – Modular design enables flexible configuration, connects up to 3 dispensers with 6 charging connectors
- Smart energy orchestration – Built-in Energy Management System (EMS) optimizes power allocation and maximizes 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		70kW
	AC max output power		70kW
Electric Vehicle charging	EV charging point		Max 6 connectors, 3 dispensers with dual-connectors or 6 single overhead connectors
	EV charging power		Max 400 kW
	EV charging power transfer		Dynamic power transfer to maximise power efficiency
	EV charging voltage		150V~1000V
PV MPPT Input (Optional)	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 * H * D mm = 2800 * 2200 * 1400 mm		Weight: <6500 kg
Power Module Configuration			
Max 12 Power Module Slots for The Configuration	ELMPPT40A	DC2DC converter, 40kW/1kV, MPPT support	Max 2 * 40kWp solar power input support (optional), replaces 1 x ELACDC35L
	ELDCDC40M	DC2DC converter, 40kW/1kV	Max 10 * 40kW DC bus discharging power/EV charging power (default configuration)
	ELACDC35L	Bidirectional AC2DC inverter, 35kW/1kV	Max 2 * 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 @30°C @rated input and output full power	
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 Box		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)			