

## FusionBoost

### Battery-Integrated DC Charger

Landis+Gyr FusionBoost DC charger integrates Energy-Storage-System (ESS), with Li-ion batteries. ESS with its local or remote EMS management system enables optimised energy supply and demands among grid, batteries, and EVs, which is significantly applied in peak and valley power consumption as well as lack of grid power capacity. The integration with ESS demonstrates its advantages in high-charging power with less input.

Landis+Gyr ESS compact charger is with thin-wall and modular design, suitable for various locations provides high stability, easy and simple operation possibility so that it can achieve flexible and fast deployment and uniformed service.



#### Gen 1



##### Fast Deployment

Compact design and single 30/60kW industrial socket



##### Charging Experience Upgrade

Automatic recognition of charger connector plug-in thanks to the ISO15118, integrated LED indication battery capacity system and diverse built-in charging modes.



##### High Power Output With Less Input

Can provide higher output (210kW) than most of other superchargers on the market by using only AC input power supply.



##### Flexible Battery Extension

Support energy-storage module extension, achieve 2x233kWh battery capacity, intelligent power module distribution.



##### Advanced User Experience

Customizable 19-inch screen, Contactless payment terminal



##### Level of protection

IP 54, IK 10

#### Gen 2



##### B2G Function

Using bidirectional ACDC power modules with 22kW/unit, battery can realize to supply energy to grid with bidirectional modules when grid needs.



##### Photovoltaics Function

An external DCDC power module with MPPT function makes NZS available to use photovoltaics energy up to 30kW.



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## Battery-Integrated DC Charger

<b>Basic Parameter</b>		<b>Gen 1</b>	<b>Gen 2</b>
Product Specification	Type	DC charging station	
	Dimension	2.30×0.73×0.63m (W×D×H)	
	Installation	On ground	
	Material	Industrial Grade Alloy	
	Color	White weather-resistant coating	
	Weight	3600kg	
Energy Storage System	Battery Capacity	233kWh / 2*233 kWh	
	Usable Energy (GAT)	208 kWh/2*208 kWh	
	Max. Charging Power	30kW/60kW	
	Battery Charge Rate	≤0.5C	
	Battery Discharge Rate	≤1C	
	Battery Efficiency	≥94.5% under nominal situation	
	IP Ranking	IP65	
Charging System	Connectors	2	
	Power Distribution	2 connectors intelligent distribution	
	Charging Power	DC Max.150kW+30kW / 60kW=180kW/210kW	DC Max.150kW+22kW /44kW=172kW/194kW
	Cable	200A, 5m, CCS2 (250A optional)	
	Charging Voltage	300V–1000V	
	Efficiency	≥96.8%	
Meter	AC Side	AC meter	
	DC Side	2 access DC meter	
Cooling System	Battery Cooling	Liquid-cooled	
	Power Modules	Air-cooled	
	Cable Cooling	Air-cooled	
	Display size	19 inch	
Payment System	RFID, credit card		
Connectivity	GSM & LTE & LAN		
Communication	OCPP 1.6J		
Photovoltaics Input	/	300-826 VDC, Max. 30kW	
Output to Grid	/	22kVA/44kVA rated power	
<b>Environment Parameter</b>			
Applicable Site	Outdoors		
Ambient Temperature	-25°C–50°C (over 45°C derating)		
Humidity	≤95%, no condensation		
Altitude	≤2000m		
EMC Emission	Type A		
Medium	No explosive hazardous, no toxic & harmful gases		
Interference	Without strong vibration and shock, no strong electromagnetic interference		
<b>Input &amp; Output</b>			
Input Voltage	3Phase 400VAC ± 15%		
Circuit Breaker	125A, 4P		
Input Frequency	50Hz±1Hz		
Output Voltage Range	150VDC-1000VDC		
Constant-Power Voltage Output Range	300VDC-1000VDC		
Nominal Power Output	150kW + 30kW/60kW (22kW/44kW if needs B2G)		
Current Output	200A/250A CCS2 continuously		
Output to Grid (in development)	22kVA/44kVA rated power (including auxiliary consumption)		
<b>Safety</b>			
Input Protection	Under-voltage protection, over-voltage protection, over-current protection, over-temperature protection, leakage protection, lightning protection, short circuit protection		
Output Protection	Short circuit protection, over-temperature protection, communication fault protection, leakage protection, over-current protection		
Emergency Protection	Set emergency stop button, leakage protection function, high-precision output insulation monitoring function		
Special Protection	IP54: protection level, anti-salt dew, moisture-proof, anti-toxic and anti-ultraviolet		
<b>Standard</b>			
Battery	IEC 62196, IEC61000		
System Level	IEC 62619, IEC61851, IEC62477, IEC61000, ISO15118		