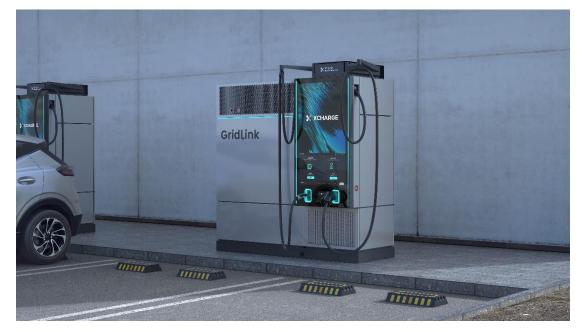


GridLink powered by XCharge



## PRODUCT OVERVIEW

GridLink by XCharge incorporates an Energy Storage System (ESS) that utilizes Li-ion batteries as energy storage devices. Equipped with both a local and remote Energy Management System (EMS), GridLink enables operators to take advantage of the benefits of peak shaving, and greater flexibility in ancillary grid services through its bidirectionality. The integration of the ESS allows for high power charging output with significantly less input requirements. GridLink features a sleek, thin-walled design suitable for various applications including parking lots, commercial centers, EV experience centers, fleet depots, and more. GridLink is built with serviceability and flexibility, offering easy access for servicing and maintenance. In-house developed 60kW bidirectional liquid cooled modules allow for greater efficiency and resilience.

GridLink also features Plug and Charge and Charge Scheduling functionality for operators.

### Use Cases

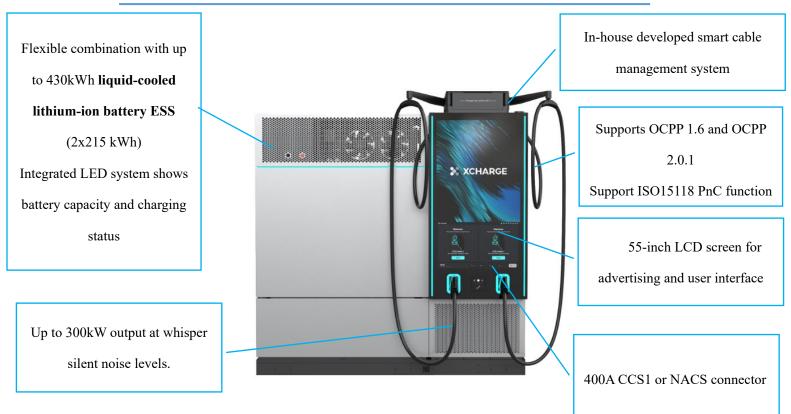
- Power-constrained areas
- Convenience stores/Gas stations
- Interstate charging
- National parks

- Commercial centers
- Fleet depots
- Hospitals
- Rural regions

### Key highlights

- Compact Design
  - Small footprint
  - Thin-walled design
  - Designed for easy deployment in parking lots.
  - Modular design to fit unique install requirements.
- High Power Output with Less Input
  - Charging power can be modularly increased up to a total of 300kW output (120kW from grid + 180kW from energy storage system) and tailored to the infrastructure constraints given (refer to adaptive power capability table)
- Liquid cooled power modules
  - AC/DC and DC/DC power modules with in-house developed liquid cooling system allow for higher output for prolonged periods with less noise and higher efficiency.
- Battery-to-Grid Functionality
  - Two 60kW bidirectional AC/DC power modules.
  - The battery can intelligently provide power to the grid, building, or other ancillary installations on the same circuit.
- Off-grid functionality
  - The system is designed to function flawlessly, even during blackouts or brownouts that cut energy supply. This provides an uninterrupted charge session in the most challenging of grid scenarios.
  - GridLink can provide energy to any local AC load such as a building or other critical equipment during a blackout period.
- Photovoltaics Functionality
  - PV direct integration up to 60kW
  - External DC/DC power module with MPPT function

### Core Features



# **TECHNICAL SPECIFICATIONS**

Energy-stor (ESS exter		grated compact chargi	ng station 300KW+200KWH		
		Туре	DC charging station		
Basic Parameter	Product Specification	Dimension (w*d*h) Cable management	GridLink 7.3 * 3.2 * 6.56 ft GridLink XL		
		and metal base is	12 x 3.2 x 6.56		
		not included			
		Installation	Floor type		
		Material	Industrial Grade Alloy		
		Color	Silver		
		Weight	7,936 lbs		

		Cell Type	LFP L280K		
		Rated Energy	215kWh/2*215kWh		
		Usable Energy (SAT)	205 kWh/2*205kWh		
	Energy-storage- system	Max. recharge Power	60kW/120kW		
		Battery charging Rate	≤0.6C		
		Battery discharge Rate	≤1C		
		Battery Efficiency	≥94.5% under nominal situation		
		Connectors	2		
		Charging power	DC Max. 300 kW		
	Charging system	Power distribution	2 connectors intelligent distribution		
		Charging voltage	300V~1000V		
		Efficiency	≥96.5%		
	NA-L	AC side	AC meter		
	Meter	DC side	2-access DC meter		
		Battery cooling	Liquid-cooled		
	Cooling system	Power modules	Liquid-cooled		
		Cable cooling	Air-cooled		
	Fire suppression system	Water			
	Payment System	RFID, credit card			
	Connectivity	GSM & LTE & LAN			
	Communication	OCPP 1.6J & OCPP 2.0.1			
	Applicable site	Outdoors			
	Ambient temperature	-4°F to 131°F			
Environment parameter	Humidity	≤95%, No condensation			
	Altitude	≤6562 ft			
	EMC Emission	Class A			
	Medium	No explosive hazard, No toxic & harmful gases.			
	Interference	No strong vibration and shock, no strong electromagnetic interference			
	AC side Voltage	3Phase 208V <sub>AC</sub> or 480V <sub>AC</sub> +/- 10%			
Input Output	Input Frequency (AC)	60Hz			
Input, Output	DC Voltage Range	200VDC-1000VDC			

	DC Constant-power voltage range	300VDC-1000VDC			
	Nominal power output (Rectifying Mode)	300 kW			
	Nominal power output (Off-Grid Mode)	180 kW			
	Nominal power output (TO-Grid Mode)	120 kW (including Auxiliary power consumption)			
	DC Current output	Max. 400A CCS1 or NACS continuously			
	Photovoltaics	Input voltage range:300-825 VDC Max Power input:60 kW			
Additional	Off-grid Function	Able to charge EV during blackouts. Able to provide energy to an AC load during blackouts			
function	IP ranking	IP54			
Safety	Safety protection	Input protection, Overcurrent protection, Lightning protection, Over-temperature protection, output over-voltage protection, fan protection, short circuit protection, Emergency button, Flood protection, Ground protection, Dumping protection, Smoke protection, on-board fire suppression			
	Battery	UL1642(cell), UL1973A			
Standard	System	UL9540, UL2202, UL2231-1, UL1973, FCC part15B and ICES-003			
	B2G	UL 1741			
	Photovoltaic UL 1998, UL991, UL1699B				
Cable					
Management					

#### Adaptive Power Capability Table

GridLink includes an adjustable power output function, allowing it to adapt to a site's power availability without requiring any hardware changes. This flexibility supports safe and reliable operation even in lower power environments and can be reconfigured as a site's power capacity evolves over time. The power output can be adjusted via the XCharge backend or a firmware tool during commissioning or servicing.

Input Power (kVA)	ACDC Output Power (kW)	Input Current @ 208V (A)	Breaker Size @ 208V (A)	Input Current @ 480V (A)	Breaker Size @ 480V (A)	Battery Augmentation (kW)	Maximum Charging Capacity (kW)
17	10	91 A	125 A	45 A	60 A	180 kW	190 kW
27	20	120 A	150 A	60 A	80 A	180 kW	200 kW
38	30	150 A	200 A	75 A	100 A	180 kW	210 kW
59	50	208 A	250 A	104 A	125 A	180 kW	230 kW
85	75	١	١	142 A	175 A	180 kW	255 kW
111	100	١	١	179 A	225 A	180 kW	280 kW
132	120	١	١	209 A	250 A	180 kW	300 kW

