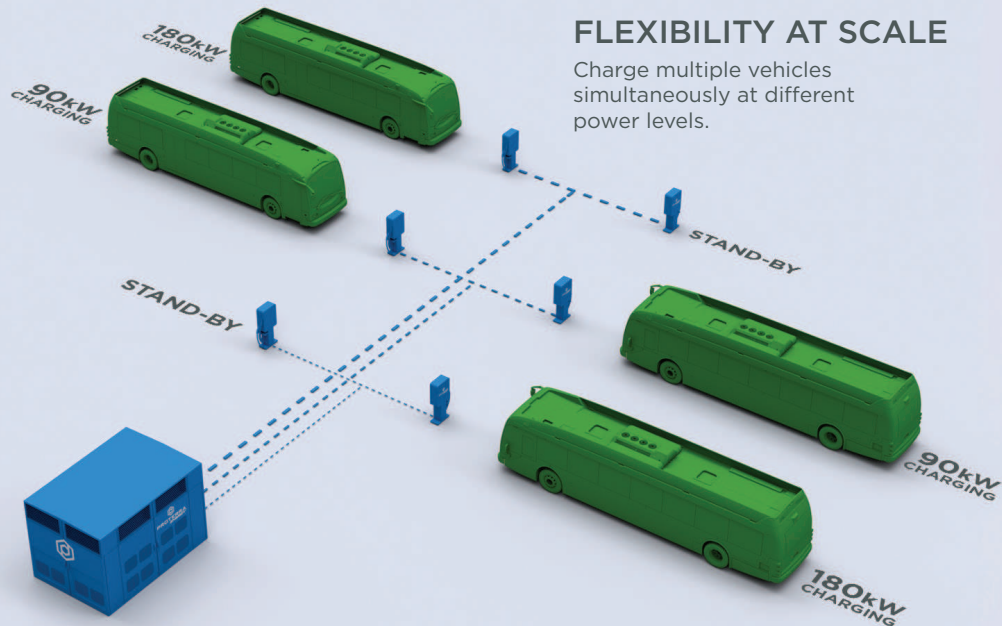


PURPOSE-BUILT CHARGING HARDWARE

Designed specifically to support large, electric fleets, the Proterra 1440kW Charging System is highly configurable and can support up to 24 vehicles simultaneously, and up to 48 sequentially.

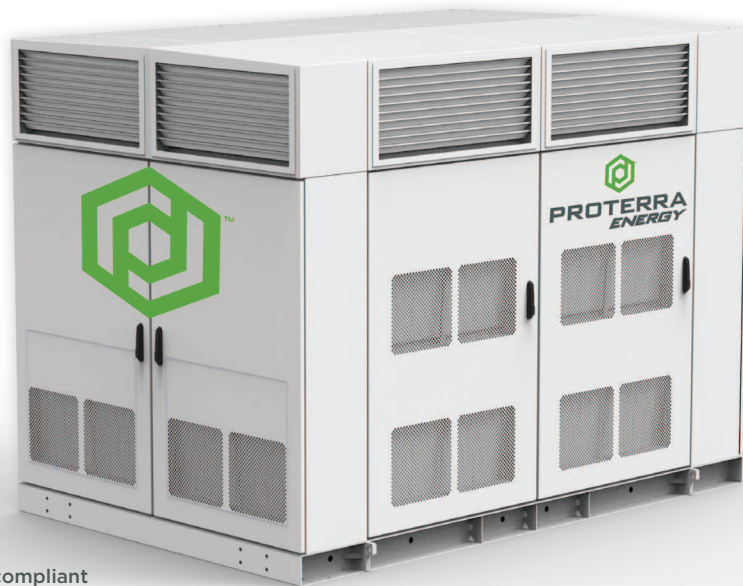
An optional medium voltage transformer can be integrated directly into the Charging System, reducing the need for an external service transformer on site.

Remote dispensers, dynamic power sharing and medium voltage options create significant cost savings and a smaller system footprint.



FLEXIBILITY AT SCALE

Charge multiple vehicles simultaneously at different power levels.



Proterra charging systems are compliant with Federal DOT Buy America requirements.

COMPATIBLE CONNECTIONS

UNIVERSAL PLUG-IN



PANTOGRAPH



Proterra® charging systems utilize industry-standard charging technology so your heavy-duty electric vehicles, utility vehicles, and cars can share the same standardized chargers.

1440_{kW}

PROTERRA® CHARGING SYSTEMS



ELECTRICAL OUTPUT	1440kW System - 480V	1440kW System - MV
Charger Continuous DC Output Power	1440kW	
DC Output Voltage	150-1000 VDC	
Continuous DC Output Current per dispenser	200A, 300A optional (May be vehicle interface limited)	
Continuous DC Output Current per Pantograph	500A (May be vehicle interface limited)	
Max number of simultaneous DC outputs	24	
Dynamic Power Sharing (DPS)	Options are 60kW – 120kW, and 90kW – 180kW	
Continuous DC Output Power per Pantograph	360kW (Pantograph Limited)	
ELECTRICAL INPUT		
AC Input Power	1531kW	
AC Input Current	1823A	*dependent on MV value
AC Input Voltage	480V +/- 10%	TBD
AC Input Topology	4-wire WYE (3ph + GND)	
AC Input Frequency	60 Hz	
Current THD% at full power	<3%	
Power Factor	>0.99	
MECHANICAL		
Cooling	Integrated air cooling	
Dimensions (D x W x H)	9.84 ft x 6.63 ft x 7.55 ft	TBD
Wall Clearance (front, back)	48 in 120 cm	
Wall Clearance (sides)	60 in 150 cm	
ENVIRONMENTAL		
Environmental Rating	NEMA 3R	
Maximum Altitude	3000m 9800 ft (power derates above 2000m 6500 ft)	
Operating temperature	-22 F to 122 F : -30 C to 50 C	
Operating Humidity	4-95%	
MISC		
Approved charger-to-vehicle interfaces	CCS1 Industrial dispenser J3105-1 Infrastructure-down Pantograph	
Max number of dispensers per 1440kW Charger	Supports simultaneous charging with 24 dispensers. Optionally supports charging up to 48 vehicles with two CCS1 cables per dispenser charging sequentially.	
Max number of pantographs per 1440kW Charger	Supports simultaneous charging with up to 24 pantographs	
1440kW Charger to dispenser or pantograph control box communications	Modbus TCP via fiber optic	
Max Distance between 1440kW Charger and Dispenser	500 ft 152.4 m (fiber optics)	
Management Communications	OCPP 1.6 control via 4G Cellular (standard) Supports WiFi, Ethernet (optional)	
Certifications	Pending: UL 2231, UL 2202, UL 1741SA, IEEE 1547	
Warranty	3 year standard, 5 year extended warranty options available	

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