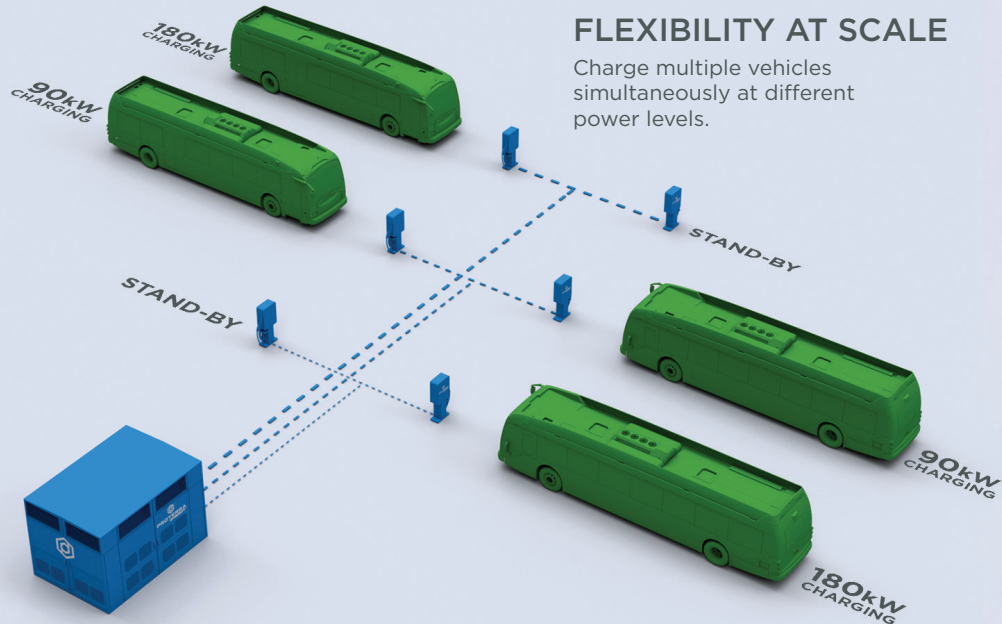


## PURPOSE-BUILT CHARGING HARDWARE

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

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<sub>kW</sub>

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	
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	
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		UL 2202, NEC 625, FCC Part 15 Class A	
Warranty		3 year standard, 5 year extended warranty options available	

PCS\_SPEC\_1440\_2023\_Q1

