

SUPERCHARGER (V3) DATASHEET



MARCH 2019

CHARGING INFRASTRUCTURE DEPLOYMENT

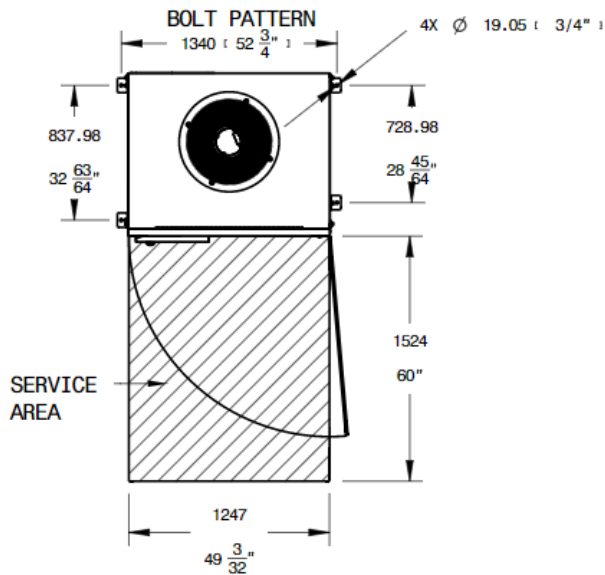
SUPERCHARGER CABINET V3 (PN 1450758-00-D)							
AC INPUT [POWER]	AC Input Power	Input [V _{AC}]	480	440	415	400	380
		Peak Power [kVA]	433	TBD	TBD	TBD	TBD
	AC Input Voltage	380 V _{AC} - 480 V _{AC} , 3AC+N					
	AC Input Current	521 A _{AC} Max.					
	Frequency	50 Hz / 60 Hz					
	Power Factor	≥ 0.99					
	Current THD	Pending test					
	Voltage THD	Pending test					
AC INPUT [MECHANICAL]	Conductor Size Range	L1, L2, L3, N: 150 – 400mm ² , 250MCM – 750MCM					
		PE: #14 AWG - 2/0					
	Conductor Material Type	L1, L2, L3, N: Cu, Al		PE: Cu			
	Lug Temperature Rating	90° C					
DC BUS [POWER]	DC Bus Power	Input [V _{AC}]	480	440	415	400	380
		Peak Power [kW]	622	TBD	TBD	TBD	TBD
	DC Bus Voltage	898 - 961 V _{DC}					
	DC Bus Current	Input [V _{AC}]	480	440	415	400	380
		Cont. Current [A _{DC}]	640	TBD	TBD	TBD	TBD
DC BUS [MECHANICAL]	Conductor Size Range	P, N: 150 – 300mm ² , 250MCM – 600MCM					
		Mid: 2.5 – 35mm ² , 14 AWG – 1 AWG					
		PE: #14 AWG - 2/0					
	Conductor Material Type	Pos, Neg, Mid: Cu, Al		PE: Cu			
	Lug Temperature Rating	90° C					
DC POST [POWER]	Post Output Power	258kW Peak					
	Post Output Voltage	180 - 500 V _{DC}					
	Post Output Current	428A _{DC} Continuous					
	Number of Charge Posts	1 - 4					
	Max voltage drop	10 V _{DC}					
DC POST [MECHANICAL]	Conductor Size Range	V+, V- : 50 – 300mm ² , 1/0 - 600MCM					
		PE: #14 AWG - 2/0					
	Conductor Material Type	Pos., Neg. : Cu, Al		PE: Cu			
	Lug Temperature Rating	90°C					
SYSTEM	Efficiency	96%					
PROTECTION	AC Input side: Class 1	DC Output side: Isolated DC Output					
	Over Voltage/Current/Temperature, Surge Protection, Isolation Monitoring						
	Short-Circuit Protection	External Electronic Trip Circuit Breaker					
	Short Circuit Current Rating	85 kA RMS symmetrical					
ENVIRONMENTAL	Operating Temperature	-30°C to 50°C, -22°F to 122°F					
	Ingress Protection	IP66 (Electronics), IP2X (Thermal Roof)					
	Ventilation Requirements	Ventilation Not Required					
NOISE	Typical noise at 1m	Pending test					
CERTIFICATIONS	ETLus, cETL, FCC, ICES-003-B pending						
LAYOUT	Max. Distance to Charge Post	100 m, 340 ft.					
WEIGHT	Supercharger Cabinet Weight	1500 kg, 3307 lbs. approximate					
DIMENSIONS	Depth, Width, Height	1000, 1250, 2200 mm; 39 12/32, 49 7/8, 86 20/32 in.					
MOUNTING	Per-anchor min. Shear Strength	Pending calculation					
	Per-anchor min. Tension Strength	Pending calculation					

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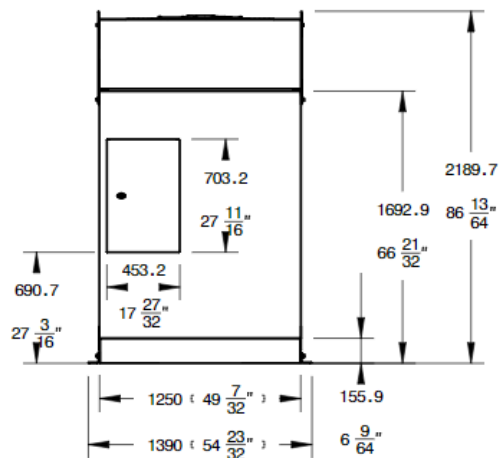
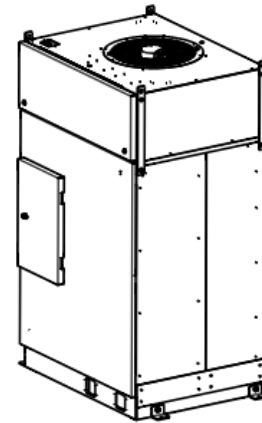


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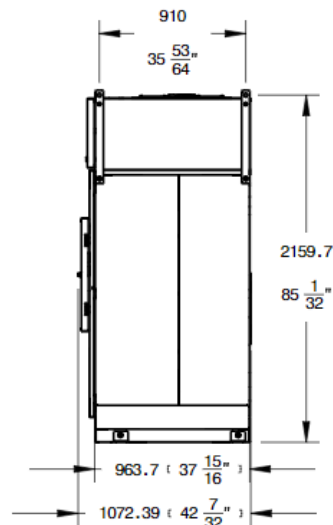
CHARGING INFRASTRUCTURE DEPLOYMENT



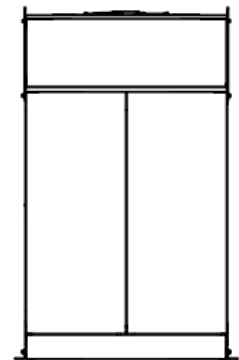
TOP VIEW



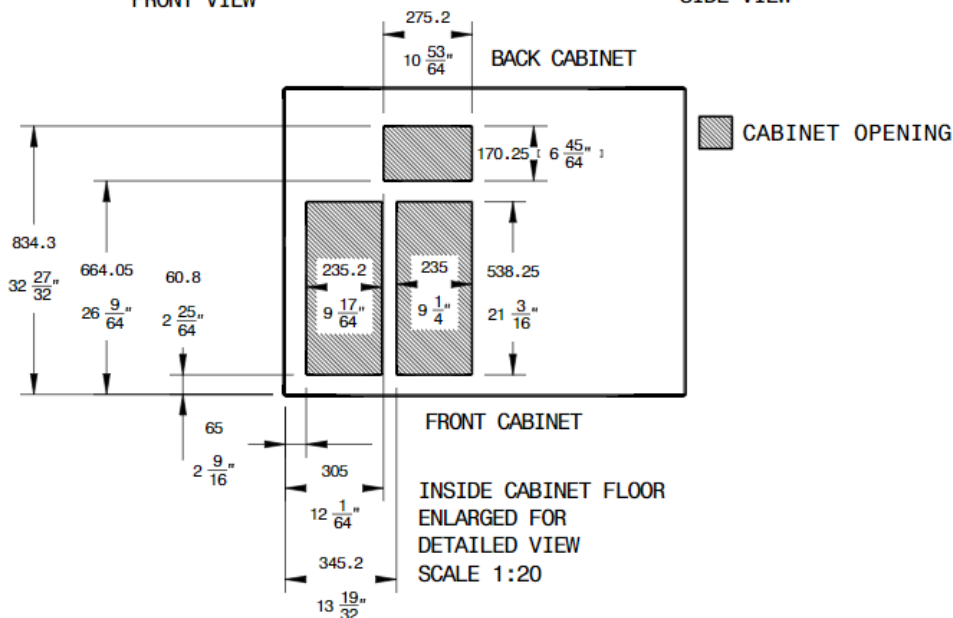
FRONT VIEW



SIDE VIEW



BACK VIEW



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CHARGING INFRASTRUCTURE DEPLOYMENT

INDUSTRIAL SITE CONTROLLER (PN 1137202-02-C)		
ELECTRICAL	Input Voltage	120 V _{AC} - 480 V _{AC}
	Input Power	100 W Max.
	Frequency	50 Hz / 60 Hz
	Overvoltage Protection	Category III
ENVIRONMENTAL	Operating Temperature	-30°C to 50°C, -22°F to 122°F
	Ingress Protection	IP67, NEMA 4
	Relative Humidity	100% condensing, wet location rated
COMMUNICATION	Protocols	Modbus TCP, DNP3, Rest API
	Backhaul	Ethernet, 4G LTE
CERTIFICATIONS	UL 61010-1, CSA-22.2, IEC-61010-1	
MECHANICAL	Dimensions	L: 255 mm (10 in) W: 530 mm (20.9 in) H: 730 mm (28.7 in)
	Weight	21.4 kg (47.2 lbs)

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SUPERCHARGER CHARGE POST VER. 3 (PN 1088585-00-D)		
POST INPUT/OUTPUT [POWER]	Post Power	250 kW peak
	Post Voltage	180 - 500 V _{DC}
	Post Current	350 A _{DC} cont. @ 35°C
DC INPUT [MECHANICAL]	Conductor Size Range	V+, V- (2x/pole): 70 – 185mm ² , 2/0 – 350 MCM PE: 25 - 50mm ² , 3AWG – 1/0
	Conductor Material Type	V+, V- : Cu, Al PE: Cu
	Lug Temperature Rating	90° C
PROTECTION	Over Current/Temperature, Uneven Current Split	
ENVIRONMENTAL	Operating Temperature	-40°C to 50°C, -40°F to 122°F
	Ingress Protection	IP44
CERTIFICATIONS	UL 2202, CSA 22.2 NO 107.1-16 <i>pending</i>	
LAYOUT	Max. Distance to Cabinet	100 m, 340 ft.
WEIGHT	Charge Post Weight	64 kg, 140 lbs. <i>approximate</i>
DIMENSIONS	Depth, Width, Height	250, 810, 1687 mm; 9 27/32, 31 7/8, 66 13/32 in.
MOUNTING	Per-anchor min. Shear Strength	<i>Pending calculation</i>
	Per-anchor min. Tension Strength	<i>Pending calculation</i>

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UNITS: MM [IN]

