

HCS-50 PRODUCT OVERVIEW

ELECTRICAL SPECIFICATIONS

- **Service** - 208V to 240V - 50A, dedicated circuit
- **Charge current output power** - 203V to 240V - 40A max
- **Service ground monitor** - Constantly checks for presence of proper safety ground
- **Automatic circuit reclosure after minor power faults**
- **Charge Circuit Interruption Device** - Ground fault protection with fully automated self-test, eliminates manual user testing

MATERIAL SPECIFICATIONS

- Indoor/outdoor rated fully sealed (NEMA 4) enclosure
- Operating Temperatures: -22°F to 122°F (-30°C to 50°C)
- 19.7" L x 9" W x 5.3"D (493mm L x 229mm W x 135mm D)
- Installation: Handheld, 3" of installation conduit, pigtail supplied for hardwired (plug-in version available with NEMA 6-50 plug)
- 25 foot charging cable - standard
- Optional pedestal
- ETL Listed

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**HOLSTER
INCLUDED!**



POWERFUL

40 AMPS

Rubber cable with over-molded connector for enhanced durability and cold weather performance!

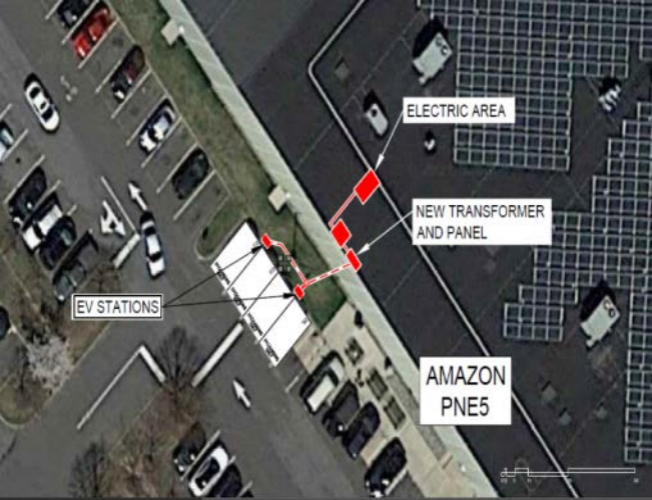


- Impact and crush resistant for survivability after vehicle roll-overs
- Type 4X Watertight & Corrosion Resistant J1772 enclosure
- 40 AMP UL 2251 Listed J1772 Connector
- Automotive Grade compounds for oil and fluid resistance
- Featuring Canolgreen Ultraflex® EV Cable
- Patented technologies offering low contact resistance resulting in minimal heat rise over extended charge cycles
- Excellent electrical and physical performance after 10k insertion/removal lifecycle test
- Backed by 3 year warranty



50000

**NOTE:
STATIONS 3 & 4 ARE CONNECTED AS
LOAD-SHARING ON ONE CIRCUIT**



ELECTRIC AREA

NEW TRANSFORMER AND PANEL

EV STATIONS

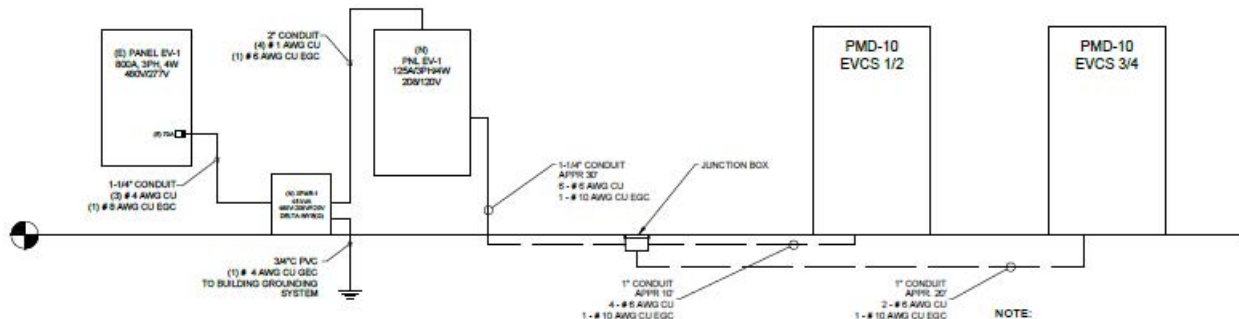
AMAZON
PNE5

PANEL SCHEDULE - EV-1

PANEL EV-1

VOLTAGE: 120/208 3 PHASE, 4 WIRE		APPLIC: 125 MCB TOTAL LOAD: 26.9 KW		MOUNTING: SURFACE FEEDER SIZE: 2/0 CU		CIRCUIT DESCRIPTION		CIRCUIT DESCRIPTION		No.																					
No.	CIRCUIT DESCRIPTION	CONF	BOFT	MTR	A/C	N/C	HESC	TRSP	POLE	A	B	C	BREAKER	HESC (MTR)	A/C	MTR	BOFT	CONF	CIRCUIT DESCRIPTION	No.											
1	EV CHARGING STATION #1	4-23							30	2	8-40								4-20	EV CHARGING STATION # 1	2										
2	X	4-23							X	X									4-20	EV CHARGING STATION # 2	4										
3	X	4-23							30	2	8-40								4-20	EV CHARGING STATION # 3 & 4	6										
4	EV CHARGING STATIONS 3 & 4	4-23							30	2	8-40								4-20		8										
5	X	4-23							X	X									4-20		10										
6	X	4-23							X	X									4-20		12										
7	X	4-23							X	X									4-20		12										
8																					10										
9																					10										
10																					10										
11																					12										
LOADS BY REC 220 DEMAND FACTORS (KW)		CONF (SCPT)		MTR		A/C		N/C		HESC		TOTAL		32.00		8-40		8-40		0.00		0.00		0.00		0.00		29.40		CONNECTED KVA: 26.4	
A PHASE		15.75		0.00		0.00		0.00		0.00		15.75																			
B PHASE		10.50		0.00		0.00		0.00		0.00		10.50																			
C PHASE		10.50		0.00		0.00		0.00		0.00		10.50																			
DEMAND PER LOAD TYPE (KW)		38.75		0.00		0.00		0.00		0.00		38.75																			
CONNECTED LOAD (LARGEST PHASE (AMP))		44										44																			
TOTAL DEMAND LOAD FOR PANEL (AMP)		36.75										36.75																			
TOTAL DEMAND LOAD FOR PANEL (AMP)		102										102																			

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CONDUIT FILL CALCULATIONS

(1) Select Wire Type: THHN		(2) Select Conduit: PVC																			
Wire Size	Enter number of conductors for each size	Total Area sq. Inches	Conduit Trade Size	Through and end Conduit ID Inches	Total area in square inches	30% Fill of Through 40% Fill of Conduit	Current total Area sq. Inches	Current Fill percent													
12	0	0.0000	0.50	0.526	0.217	0.087	0.0000	0.0000													
10	8	0.0511	0.75	0.753	0.301	0.388	0.0000	0.0000													
8	8	0.0000	0.00	0.000	0.000	0.000	0.0000	0.0000													
8	8	0.0000	1.25	1.250	1.207	0.491	0.0000	35.37%													
4	0	0.0000	1.50	1.524	1.711	2.883	0.0000	18.71%													
3	0	0.0000	2.00	2.015	2.813	3.193	0.0000	11.32%													
2	0	0.0000	2.50	2.580	4.519	3.447	0.0000	7.00%													
1	0	0.0000	3.00	3.884	6.642	2.577	0.0000	5.00%													
1/2	0	0.0000	3.50	4.426	8.688	4.475	0.0000	3.74%													
2/3	0	0.0000	4.00	5.186	11.258	4.929	0.0000	2.08%													
3/4	0	0.0000																			
1	0	0.0000																			
1/2	0	0.0000																			
2/3	0	0.0000																			
3/4	0	0.0000																			
1	0	0.0000																			
1/2	0	0.0000																			
2/3	0	0.0000																			
3/4	0	0.0000																			

NOTES:
1) All dimensions are from manufacturer specifications.
2) Dimensions are based on 2020 NEC.
3) Fill area based on NEC 2020 Table 4 Chapter 9

VOLTAGE DROP CALCULATIONS (WORST CASE)

Station	Length	Voltage	Current	Cond. Size	Voltage Drop %	Voltage Drop Volts
1 & 2	330 FT. MAX	208	40	6	0.93%	1.87
3 & 4	330 FT. MAX	208	40	6	0.93%	1.87