Construction Signoff Form

Express Plus Power Block and Power Link 1000

This form ensures the site for your ChargePoint solution has been prepared as specified, by you or by your chosen contractor, before beginning installation. Submit this completed form and the required photos to installdispatch@chargepoint.com. Detailed datasheets, site design guides, and installation guides defining ChargePoint specifications are available at ChargePoint Product Reference Documents.

IMPORTANT: All installations must comply with local and regional code. ChargePoint provides concrete pad guidance applicable for most sites in the site design; however, pad sizes for a given site might be smaller or larger due to site conditions. Ensure site drawings have been completed and approved by a structural engineer for the site.

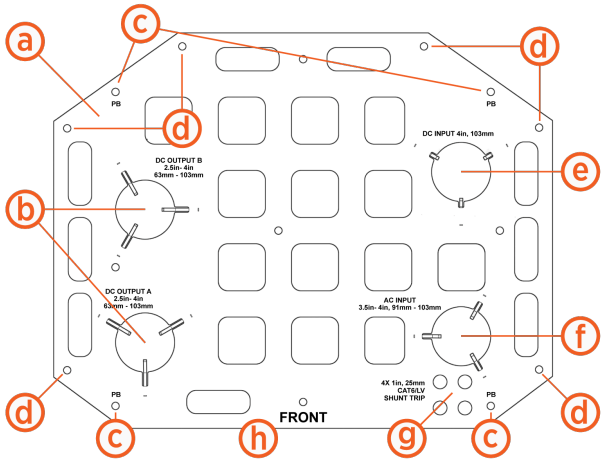
NOTE: If the installer arrives to the installation site and finds any signoff items incomplete, you will incur a separate re-dispatch fee.

Site Information	Contractor Information
Site address:	Company name:
	Site lead name:
Number of stations to be installed:	Site lead job title:
Contact name:	Site lead email:
Contact phone:	Site lead phone:
Contact email:	Date work began:

Take the following photos for each location throughout the site construction process.

Required Pictures	
☐	1. All trenching has been completed and conduit/ducting is laid in place.
☐	2. The Power Block Concrete Mounting Template (CMT) is in place, and anchor bolts and conduit stub-ups have been inserted correctly. The CMT is being held at the proper height to prevent movement during the concrete pour.
☐	3. The Power Link 1000 Concrete Mounting Template (CMT) is in place, and anchor bolts and conduit stub-ups have been inserted correctly. The CMT is being held at the proper height to prevent movement during the concrete pour.

Required Pictures	
	-or- Wall or overhead location secure with flex conduit and wire correctly installed.
☐	4. Completed concrete pad (if applicable), showing anchor bolts and conduit stub-ups in place.
☐	5. Overall space around each mounting location, showing all service clearances are available.
☐	6. The electrical panel's specification label, showing total panel capacity.
☐	7. The open electrical panel with the dead front panel removed, showing terminations.
☐	8. The open electrical panel with the dead front panel on, showing breaker amperage ratings and labels for Express Plus connections
☐	9. The front of each AC disconnect (if applicable by region)
☐	10. Power Link 1000 sites are positioned so that each station front is facing the vehicle

Civil Work, Power Block	
☐	1. The concrete pad was designed, installed and approved as follows: a. If the concrete pad is new: • The pad was designed and installed based on one of the conservative stability specifications listed in the *Express Plus Site Design Guide*, in accordance with site-specific wind, seismic and soil conditions. -or- • The pad was designed by a structural engineer, based on site-specific conditions and based on the structural parameters listed in the *Express Plus Site Design Guide*. b. If the concrete surface is existing: • The pad was inspected and approved by a structural engineer, based on the structural parameters listed in the *Express Plus Site Design Guide*
☐	2. Walls, fences, or slopes do not prevent water from draining from the pad.
☐	3. The Concrete Mounting Template (CMT) is installed in the pad, 50.8 mm (2 in) below the concrete surface, with anchor bolts in place in the CMT, OR Surface Conduit Entry (SCE) is ready for installation.
☐	4. Conduit stub-ups (if applicable) are cut to a height 559-914 mm (22-36 in) above top of concrete.
☐	5. All conduits and anchor bolts are positioned correctly in the CMT:  (a) Concrete Mounting Template (b) DC output options: 250, 350, or 500 A; up to 103 mm (4 inch trade size) conduit each

Civil Work, Power Block

(c) M16 anchor bolts (x4) with top 76 mm (3 in) protruding above concrete

(d) Surface Conduit Entry anchor positions
(optional: x2 left, x2 rear, or x2 right)

(e) DC auxiliary input (requires optional package): 103 mm (4 in trade size) conduit

(f) AC input: 103 mm (4 inch trade size) conduit

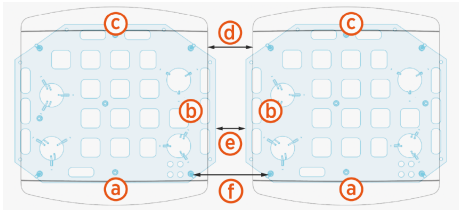
(g) Low voltage DC, Cat6 Shielded Twisted Pair (STP) Ethernet, and shunt trip options; 21 mm (3/4 inch trade size) conduit (x4)

- Shunt trip: if used (x1)
- 1 Ethernet, 1 LV out: (x1)
- 2 Ethernet, 1 or 2 LV out: (x2)
- 3 Ethernet, 1 or 2 LV out: (x3)

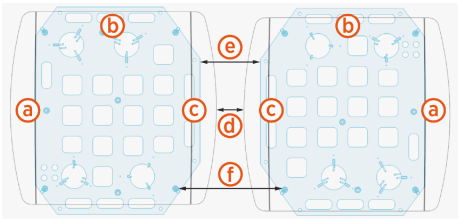
(h) Front of enclosure (top view)

☐ **6.** The open space and service clearance requirements are met:

Two Power Blocks laid side-to-side



Two Power Blocks laid back-to-back



The following table provides the clearances required for service and ventilation around the Power Block (PB):

Side	Power Blocks Layout	Clearance		
(a) Front	–	–		Minimum 1000 mm (39.4 in)
(b) Sides	PBs laid side-to-side	Minimum	**(d)** PB to PB	51 mm (2 in)
			(f) Center of anchor bolt to center of anchor bolt	245 mm (9.6 in)
		Recommended	**(d)** PB to PB	152 - 203 mm (6 - 8 in)
			(e) CMT to CMT	116 - 167 mm (3.4 - 5.4 in)
			(f) Center of anchor bolt to center of anchor bolt	376 - 427 mm (14.8 - 16.8 in)
(c) Rear	PBs laid back-to-back		**(d)** PB to PB	457 - 609 mm (18 - 24 in)
			(e) CMT to CMT	609 - 761 mm (24 - 30 in)

Civil Work, Power Block

Side	Power Blocks Layout	Clearance		
			(f) Center of anchor bolt to center of anchor bolt	376 - 427 mm (14.8 - 16.8 in)

NOTE: If placing two Power Blocks back-to-back using surface conduit entry, there must be at least 609 mm (24 in) of shared rear clearance.

- Side clearances can be shared between Power Blocks as long as:
  - At least 51 mm (2 in) of clearance is maintained between each Power Block.
  - Required service clearance is maintained at the front and rear sides.
  - At least 457 mm (18 in) of clearance is available at each end of a row of Power Blocks.
- Front and rear clearances must be at grade level +/- 13 mm (0.5 in).

Civil Work, Power Link 1000

☐ 1. The concrete pad was designed, installed and approved as follows:

a. If the concrete pad is new:

- The pad was designed and installed based on one of the conservative stability specifications listed in the *Express Plus Site Design Guide*, in accordance with site-specific wind, seismic and soil conditions.

-or-

- The pad was designed by a structural engineer, based on site-specific conditions and based on the structural parameters listed in the *Express Plus Site Design Guide*.

b. If the concrete surface is existing:

- The pad was inspected and approved by a structural engineer, based on the structural parameters listed in the *Express Plus Site Design Guide*

☐ 2. Walls, fences, or slopes do not prevent water from draining from the pad.

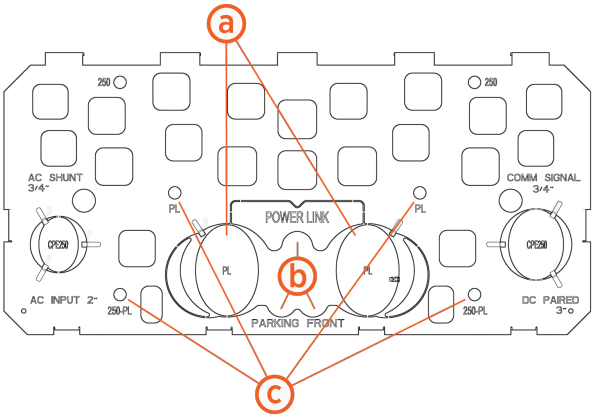
☐ 3. The Concrete Mounting Template (CMT) is installed in the pad, 51 mm (2 in) below the concrete surface, with anchor bolts in place in the CMT, OR Surface Conduit Entry (SCE) is ready for installation.

☐ 4. Conduit stub-ups are cut to a height 102-160 mm (4-6.3 in) above top of concrete.

☐ 5. All Power Link 1000s are within 100 m (328 ft) of the associated Power Block.

☐ 6. All conduits and anchor bolts are positioned correctly in the CMT:

Civil Work, Power Link 1000

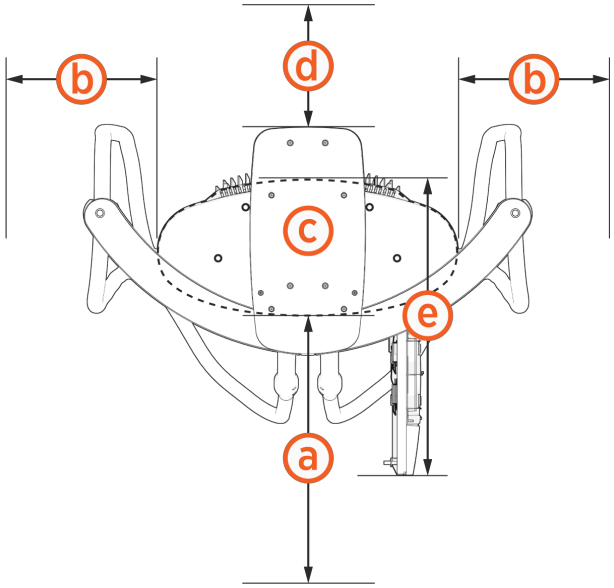


(a) DC input conductor: up to 89 mm (3.5 in trade size) conduit each

(b) 48 VDC and Cat6 Shielded Twisted Pair (STP) Ethernet: 21 mm (3/4 in trade size) conduit

(c) Power Link 1000 anchor bolts (x4) with top 76 mm (3 in) protruding above concrete

☐ **7.** The service clearance of open space is sufficient:



(a) Front: 610 mm (24 in) minimum open space

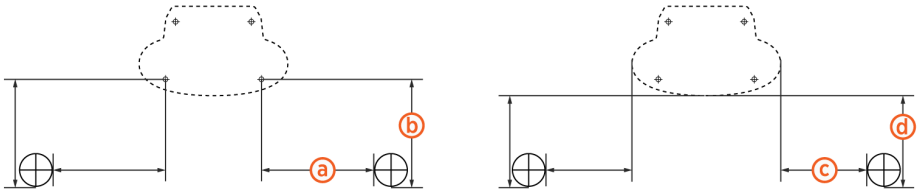
(b) Side: 305 mm (12 in)*

(c) Top:

- 26 mm (1 in) from top of Cable Management Kit, for pedestal mount
- 305 mm (12 in) from top of Power Link 2000, for overhead mount

(d) Rear: 203 mm (8 in), or 457 mm (18 in) for liquid cooled cable with backpack, or 610 mm (24 in) for Surface Conduit Entry

(e) Door swing plus station width: 730 mm (28 3/4 in)

Civil Work, Power Link 1000	
	* Side clearance is measured from top corner to top corner. Side clearance can be shared between two Power Link 1000s provided adequate clearance is allowed for Cable Management Kit (CMK) arms. CMK arms cannot share side clearance.
☐	8. Bollards (if applicable) are correctly placed:  (a) Anchor bolt to bollard inside edge: 254 mm (10 in) (b) Anchor bolt to bollard front edge: 424 mm (16.7 in) (c) Power Link 1000 side to bollard inside edge: 122 mm (4.8 in) (d) Power Link 1000 front to bollard front edge: 305 mm (12 in)
☐	9. Charging station sites are positioned so that the front of each station is facing the vehicle.
☐	10. The charging station is at least 203 mm (8 in) from any wall as its rear clearance. Stations positioned back to back are no closer than 610 mm (24 in) shared clearance.
☐	11. All signage, parking spot striping, and “EV” markings are completed per site drawings and local code.

Electrical Work

Electrical Work

☐ 1. A correctly rated, dedicated breaker is installed for each Power Block, per this table:

Nominal Voltage	Input Current Rating	Branch Circuit Capacity and Breaker	Breaker Size
Europe: 400 V	315 A	350 A or 400 A	400 A
North America: 480 V	260 A		350 A or 400 A

☐ 2. The transformer nameplate shows that wiring is Wye (Y) connected, and 3-phase with bonded neutral plus Ground.

NOTE: Delta (floating or grounded) configuration is not supported.

☐ 3. Breakers have shunt trip capability to each Power Block if the site drawing calls for shunt trip wiring.

☐ 4. All electrical infrastructure has been completed per local codes and ChargePoint specifications for 3-phase power plus ground, with properly sized copper as defined in the *Express Plus* Power Block and *Power Link 1000 Site Design Guide*. (Do not install Neutral.)

Conductor	Conductor Rating	Number of Poles	Insulation Type	Temperature Rating
AC Input	Europe: 315 A, 400 V AC North America: 260 A, 480 V AC	3 + PE	THHN/THHW/THW2/THWN-2 based on site condition (dry or wet)	90°C (194°F)
HV DC Output	200-350 A, 1000 V DC	2 + PE	XHHW/XHHW-2 based on site condition (dry or wet)	90°C (194°F)
48 V DC	32 A, 1000 V insulation rating	2		75°C (167°F) required, 90°C (194°F) recommended

Record the AC conductor size, voltage rating, and insulation type: _____

Record the DC conductor size, voltage rating, and insulation type: _____

Record the 48 V DC conductor size, voltage rating, and insulation type: _____

☐ 5. Ethernet strength meet requirements per the Power Link 1000 *Site Design Guide* and the *Network Readiness Guide* available at ChargePoint Product Reference Documentation.

☐ 6. Wi-Fi and/or cellular signal strength meet requirements per the Power Link 1000 *Site Design Guide* and the *Network Readiness Guide*. For installations using Ethernet or Wi-Fi, the IT Administrator has completed the relevant Site Qualification Checklist (Ethernet or Wi-Fi) in *Network Readiness Guide* available at ChargePoint Product Reference Documentation.

Site Comments

I, _____ hereby certify that the scope of work in this form has been correctly completed.

Signature	Date

chargepoint.com/support