



# DynaChrg EVH480

## 480 kW Liquid-Cooled DC Fast Charger

The DynaChrg EVH480 delivers up to 480 kW of DC fast charging for high-demand commercial and public charging sites. Dual CCS1 + NACS connectors, liquid-cooled charging, integrated payments, and OCPP 2.0.1 support reliable, networked operation.



### High-Power Charging Performance

- 480 kW maximum rated power; 200-1000 VDC output range.
- 600 A x 2 rated current; charge two EVs simultaneously.
- Dual output: 120 / 240 / 360 kW per connector; single output up to 480 kW.
- Peak efficiency  $\geq 95\%$ ; power factor  $\geq 0.98$ .

### User Interaction & Connectivity

- 2 x 10.1 in LCD touch screens plus a 55 in advertising display.
- Start by QR scan, RFID tap, or POS.
- Ethernet, Wi-Fi, 4G; OCPP 2.0.1; ISO/IEC 14443 RFID.
- Emergency E-stop button.

### Protection & Safety

- Input: SCP, OVP, OCP, OPP, UVP, SPD.
- Output: SCP, OCP, OVP, LVP, OTP, IMD.
- Internal OTP, DC contactor detection, fuse protection, galvanic isolation.

### Liquid-Cooled Charging

- Liquid-cooled charging cables support sustained high-power output.
- Fan-cooled internal power modules.
- 16.4 ft (5 m) charging cable length.

### Integrated Payment Options

- 2 x credit-card POS terminals (optional Nayax).
- Bank card, NFC, and mobile payment support.
- 4G / Ethernet POS communication; IP54 POS protection.

### Built for Indoor & Outdoor Operation

- NEMA Type 3R enclosure; IK10 impact rating excluding LCD and RFID panel.
- Operating:  $-22^{\circ}\text{F}$  to  $122^{\circ}\text{F}$  ( $-30^{\circ}\text{C}$  to  $50^{\circ}\text{C}$ ).
- 5%-95% RH non-condensing; altitude  $\leq 6,560$  ft (2,000 m).

## Specifications

| AC INPUT                  |                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------|
| Rated Voltage             | 480 Vac                                                                                              |
| Rated Current             | 620 A<br>(Note: this charger has derating and smart charging capability to operate at lower ratings) |
| Distribution              | 3P+N+PE / 3P+PE                                                                                      |
| Grid Compatibility        | TN-S, IT                                                                                             |
| Frequency                 | 60 Hz                                                                                                |
| Power Factor              | ≥ 0.98                                                                                               |
| Efficiency                | ≥ 95% (peak)                                                                                         |
| DC OUTPUT                 |                                                                                                      |
| Voltage Range             | 200 Vdc – 1000 Vdc                                                                                   |
| Rated Current             | 600 A × 2 (dual connectors)                                                                          |
| Rated Power               | 480 kW (maximum)                                                                                     |
| Connectors                | CCS1 + NACS (dual)                                                                                   |
| Output Mode               | Dual: 120 / 240 / 360 kW per connector ·<br>Single: up to 480 kW                                     |
| PROTECTION FEATURES       |                                                                                                      |
| Input                     | SCP, OVP, OCP, OPP, UVP, SPD                                                                         |
| Output                    | SCP, OCP, OVP, LVP, OTP, IMD                                                                         |
| Internal                  | OTP, DC contactor detect, fuse                                                                       |
| Isolation                 | Galvanic input-output isolation                                                                      |
| ENVIRONMENTAL CONDITIONS  |                                                                                                      |
| Operating Temp.           | –22°F – 122°F (–30°C – 50°C)                                                                         |
| Storage Temp.             | –22°F – 158°F (–30°C – 70°C)                                                                         |
| Relative Humidity         | 5% – 95% RH, non-condensing                                                                          |
| Altitude                  | ≤ 6560 ft (2000 m)                                                                                   |
| Touch Current             | ≤ 3.5 mA                                                                                             |
| USER INTERFACE & CONTROL  |                                                                                                      |
| Touch Screens             | 2 × 10.1" LCD (one per side)                                                                         |
| Ad Screen                 | 55" LCD — online/offline, remote                                                                     |
| Emergency                 | E-stop button                                                                                        |
| Start Methods             | QR scan, RFID tap, POS                                                                               |
| RFID                      | ISO/IEC 14443                                                                                        |
| Communication             | Ethernet, Wi-Fi, 4G                                                                                  |
| Protocol                  | OCPP 2.0.1                                                                                           |
| MECHANICAL SPECIFICATIONS |                                                                                                      |
| Net Weight                | 2,315 lb (1050 kg)                                                                                   |
| Gross Weight              | 2,645 lb (1200 kg)                                                                                   |
| Dimensions (W×D×H)        | 45.3" × 42.5" × 85" (1151 × 1080 × 2159 mm)                                                          |
| Cable Length              | 16.4 ft (5 m)                                                                                        |
| Connectors                | CCS1 + NACS (dual)                                                                                   |
| Cooling                   | Liquid-cooled cable + fan-cooled modules                                                             |
| Installation              | Floor-standing                                                                                       |
| Enclosure                 | NEMA Type 3R                                                                                         |
| Impact Rating             | IK10 (excl. LCD & RFID panel)                                                                        |

| PAYMENT / POS (Optional: Nayax) |                                                             |
|---------------------------------|-------------------------------------------------------------|
| POS Terminals                   | 2 × credit-card terminals                                   |
| Payment                         | Bank card, NFC, mobile pay                                  |
| Communication                   | 4G / Ethernet                                               |
| Protection                      | IP54                                                        |
| CERTIFICATIONS & STANDARDS      |                                                             |
| Safety                          | UL 2202, CSA C22.2 #346, UL 2231-2, UL 50E, UL 991, UL 1998 |
| EMC                             | UL 2231-2                                                   |
| Enclosure                       | UL 50E (NEMA Type 3R)                                       |
| Other                           | ETL, Energy Star, FCC & IC                                  |
| SHIPPING & INSTALL              |                                                             |
| Packaging                       | 51.2" × 44.9" × 91.1"                                       |
| Base (above fdn.)               | 47.24" × 51.18" × 3.94"                                     |
| Clearance                       | ≥ 5 ft Sides & Front, ≥ 2 ft Back                           |
| Installation                    | Floor-standing                                              |

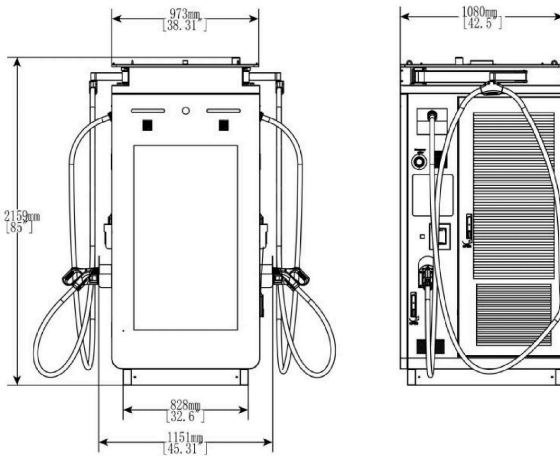


- ✓ 55" Advertising Display
- ✓ 3 LCDs, 2 POS Terminals
- ✓ Dual 10.1" touchscreens
- ✓ RFID/QR authentication

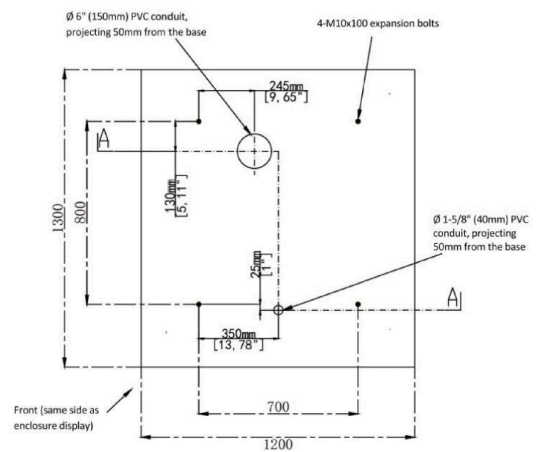
## INSTALLATION CONDITIONS

|                     |                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Load-Bearing        | Unit 2,315 lb (1050 kg) · forklift must be OSHA-rated with safety margin                                                                                                      |
| Installation Height | Base thickness 31.5" (800 mm) · levelness $\leq 3^\circ$                                                                                                                      |
| Electrical          | Dedicated circuit, 1000 A breaker recommended · cable 6×300 mm <sup>2</sup> +1×120 mm <sup>2</sup> (Informational Only. Please confirm with Licensed Elec.Eng)                |
| Environmental       | Clearance $\geq 6.5$ ft (2 m) all sides · avoid severe weather & flammable materials                                                                                          |
| Grounding           | Ground resistance $< 4 \Omega$ · 480Y/277V systems require neutral (N) for receptacles                                                                                        |
| Conduit             | $\varnothing 6"$ (150 mm) main + $\varnothing 1-5/8"$ (40 mm) secondary PVC, projecting 50 mm · 4 × M10×100 bolts (Informational only. Please confirm with licensed Elec.Eng) |

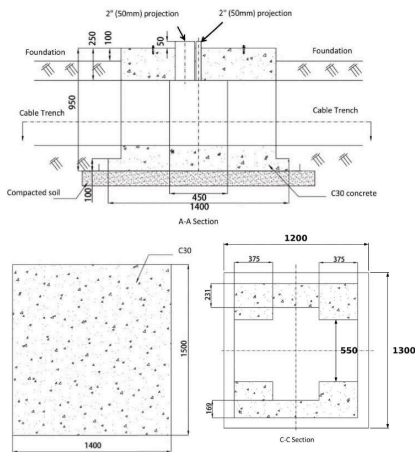
## Dimensions



Dimensions (W×D×H)



Base Top View - Conduit Layout



Pedestal Base - Sections A-A/B-B/ C-C

## Key Benefits

- Up to 480 kW high-power DC fast charging.
- Dual CCS1 + NACS vehicle compatibility.
- Two-EV simultaneous charging.
- Liquid-cooled cable for sustained output.
- Integrated touchscreen, RFID, QR and payment interfaces.

## Ideal for Various Charging Scenarios



Efficient underground garage charging.



High-traffic large charging stations.



Flexible indoor-outdoor installation.

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