TEAL 80/160 DEPOT

ALL-IN-ONE BUS DEPOT CHARGING SOLUTIONS

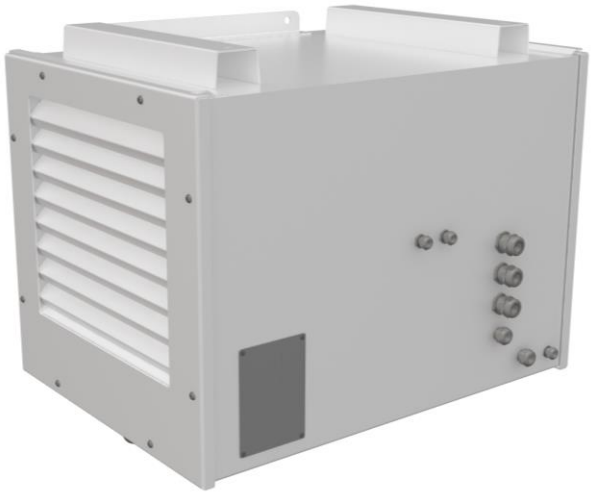
BEQ TECHNOLOGY
CONNECTING ONE CHARGING STATION AT A TIME

PRODUCT OVERVIEW

Made in Canada

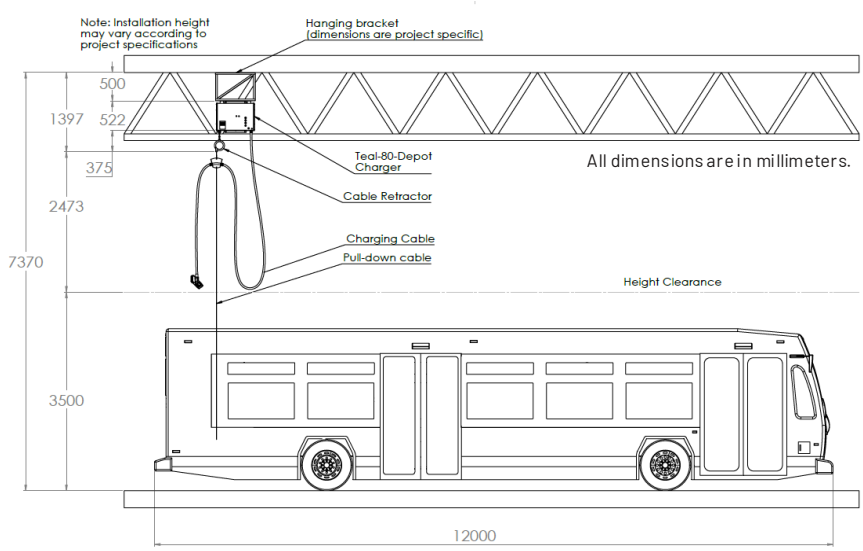
Teal's 80/160kW bus depot chargers offers the versatility required to electrify diesel garages with minimal modifications required.

Offered in 80 and 160kW variants and capable of sequential, parallel or dynamic 50-50 split power sharing to meet the requitements of today and future buses. Robust system with unique -50˚C to +50˚C rated operation (-58F to 122F), ensuring reliability in any harsh climate.



Ideal for heavy duty operation in bus depot and commercial fleet applications.

- Best in class 266/532A maximum current output provides up to 2.5 times current offered by the competition products.
- SiC rectifiers with +97.5% full load efficiency.
- Weighs only 70kg (80kW version, excluding the cable) allowing for minimum structural modifications required.
- Configurable for either pantographs or cables.
- Power sharing capability with another identical unit
- Highly redundant architecture guarantees minimal downtime.
- Ground up design, minimized parts count while maximizing reliability and simplifying replacement parts and supply chain.
- Fully customizable control and monitoring software dashboard allowing for a tailored experience.
- Standard 3-year warranty (from the commissioning date) on all components, including cables. Up to 10 years of extended warranty available.



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PRODUCT OVERVIEW & KEY FEATURES

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Key Design Features

1. Power sharing capability.
2. Dual output option for the 160kW variant
3. Modular design minimizes maintenance cost and complexity.
4. Designed with long lifespan and minimum TCO in mind.
5. Lowest replacement cost on main components. Transparency that helps operators to choose with confidence.
6. Powder-coated aluminum body construction prevents corrosion and ensures long lifespan.
7. Condensation mitigation technology ensures inside the cabinets stay dry year-round.
8. Customized filters to meet customer's IP requirements. (IP54 is standard, Can meet up to IP66).
9. Remote emergency stop feature available.
10. Designed so that all the components are readily accessible and easily serviced.
11. OCPP 1.6J and 2.0.1 compliant.
12. J3105 and J3105-1 compliant when offered with pantographs.

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GENERAL SPECIFICATIONS, OPTIONS & PART NUMBERS

Made in Canada

GENERAL SPECIFICATIONS	
OUTPUT CURRENT 80/160	**266/532A Max**
OUTPUT POWER	**80 /160KW, 150-1000V dc**
MAX CONNECTIONS	**2 SIMULTANEOUS VEHICLES**
3Φ AC INPUT (3P+PE)	**380V TO 480V**
FREQUENCY	**50HZ/60HZ**
FULL LOAD POWER FACTOR	**>0.99**
EFFICIENCY	**>97% @ FULL LOAD**
STANDARD WARRANTY	**THREE YEARS**
OCPP VERSION	**1.6J AND 2.0.1**

Options & Part Numbers

D – 80 - CCS1 – PTG

D: Depot Series

Power Level:
80: 80kW
160: 160kW

1st Output Type:
CCS1: Combo 1
CCS2: Combo 2
NACS: NACS/TESLA
PTG: Pantograph

2nd Output Type:
CCS1: Combo 1
CCS2: Combo 2
NACS: NACS/TESLA
PTG: Pantograph

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DETAILED SPECIFICATIONS

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AC INPUT
Voltage Range: 340V-528V 3Φ (3P+PE)
Rated Voltages: 380V-400V-415V-440V-480V 3Φ (3P+PE)
Input Current At Rated Voltage: 80kW: 127/120/116/109/100 A 160kW: 254/240/232/218/200 A
Frequency 50Hz/60Hz
Full Load Power Factor Greater Than 0.99
Full Load Efficiency > 97%

DC OUTPUT
Output Voltage Range CCS: 150~1000Vdc NACS: 150~1000Vdc
Max. Continuous Output Current CCS: 350A NACS: 350A Pantograph: 350A
Voltage Accuracy ±0.5%
Current Accuracy ±1%

USER INTERFACE AND CONTROL
Stop Button With RGB Indicators
User Authentication RFID: Supports ISO14443A/B
OCPP 1.6J and 2.0.1

COMMUNICATION
External: Ethernet
Internal: CAN bus/Ethernet/RS485/RS232

ENVIRONMENTAL
Rated Temperature Range -50˚C to +50˚C (-58F to 122F), Power Derating Starts at +52˚C/126F Operating Temperature Range -50˚C to +70˚C (-58F to 158F)
Humidity 5%~95% RH, Non-Condensing
Altitude ≦ 2000m
Aluminum Type 3R Rainproof Enclosure/IP54, Customizable to IP66
Air-Cooled System

PROTECTION
Input Protection: OVP, OTP, UVP, OPP
Output Protection: IMD, OCP, OVP, OTP, LVP, SCP

REGULATION
Compliance UL 2202, UL 2231-1, UL2231-2, UL50E, CSA C22.2 No 107.1/CSA C22.2 No 281.1-12/CSA C22.2 No 281.2-12, cCSAus (pending)
Charging Interface ISO15118 (CCS/NACS), SAE J3105 Pantograph