Town of Munster – EV Charger Project Overview

Project Scope

The attached quote is for the procurement and installation of a Level 2 EVBox Iqon Electric Vehicle Charger. We will utilize an existing electrical panel in the SW corner of the parking lot at the Munster Town Hall to provide power to the charging station. We will pour a concrete foundation between the last two spaces in the SW corner, and install and activate the charging station.

Equipment Overview

EVBox is a major EV Charging hardware manufacturer in the European market and recently opened a new manufacturing facility in Libertyville, IL. EVBox equipment is OCPP compliant. OCPP is a standardized EV charging station software protocol that allows EVBox equipment to be controlled by a wide variety of software options. This provides flexibility as software options and Munster's needs change over time. EVBox equipment has proven to be very reliable and comes with a five-year parts warranty.

AmpUp Software Overview

AmpUp is an OCPP compliant software provider that offers a very cost-effective option to meet all the VW grant requirements. It offers a simple reporting solution to track users, total electricity provided, and allows for flexible pricing. EV Drivers will use the AmpUp app to unlock the charging port and activate the station. This is standard practice for all charging softwares.

Electricity Pricing Options

Level 2 charging stations are most commonly priced near the cost of electricity or provided as a free service. Assuming a $0.15/kWh cost of electricity from the utility, a Level 2 charging station will cost the Town of Munster roughly $2.15/hour when two vehicles are charging at the same time. The sale price per kWh can be easily adjusted with the AmpUp software. AmpUp bills the EV Driver through the app and sends the revenue monthly to Munster.

Project Timeline:

The charging hardware takes 4-6 weeks for delivery. During this period, we can install the breakers, conduit, and foundation to be ready for the charger delivery. We will be able to schedule the charger installation 1-2 weeks after it is received. Actual onsite time will be one day for the site prep and one day for the charger installation and activation.

Quote Prepared For

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Quote Prepared By

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Item#	Quantity	Item	Unit Price	Adjusted Unit Price	Extended Price
One-Time Items					
1)	1	EVBox Iqon Hub Up to 7.2 kW at 30 A / Charges up to 25 miles in an hour, 208-240V, single/split phase 30 A, 2 ports with integrated cable management system, 18 ft (~6 m) cable with Type 1 (SAE J1772) plug, Wi-Fi and 4G, OCPP 1.6 compliant, RFID / QR code, LCD display, LED rings, and light guides, Back-to-back install option	$6,395.00	$6,395.00	$6,395.00
2)	1	5 Year Warranty - EVBox Iqon Extended 5 Year Parts Warranty	$250.00	$250.00	$250.00
3)	10	AmpUp CM Basic Set pricing, collect revenue, receive ongoing reports, priced per charging port/year	$96.00	$96.00	$960.00
4)	1	AmpUp Lvl 2 Station Activation One-time activation of level 2 station on AmpUp network	$180.00	$180.00	$180.00
5)	1	Level 2 Charger Installation Install 2 40-amp breakers in existing electrical panel in SW corner, pour concrete foundation between last two spaces in SW corner, install and activate charging station	$5,760.00	$5,760.00	$5,760.00
6)	1	EVBox Shipping	$450.00	$450.00	$450.00
			One-Time Total		**$13,995.00**

Subtotal		**$13,995.00**
Total Taxes		**$0.00**
Total		**$13,995.00**

Question(s): Please contact Nathan Onchuck at (708) 432-8126
or e-mail at NathanOnchuck@Ozinga.com

EVBox Iqon
commercial charging solution

Created specifically for the North American electric vehicle market,
EVBox Iqon is designed to balance form and function.

Modular construction allows for easy installation and service.
Bluetooth commissioning enables flexible integration with multiple software providers.

18ft auto-locking cable management system and 8" LCD touch screen interface create an
optimal user experience for both drivers and site hosts.

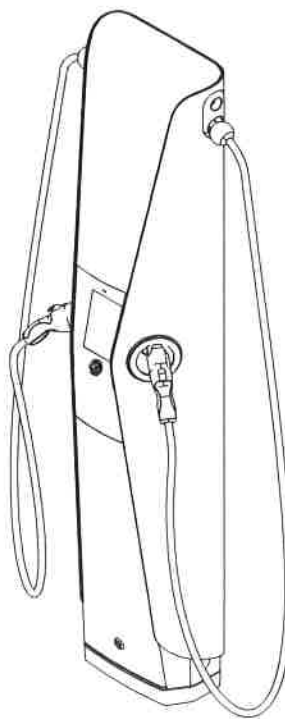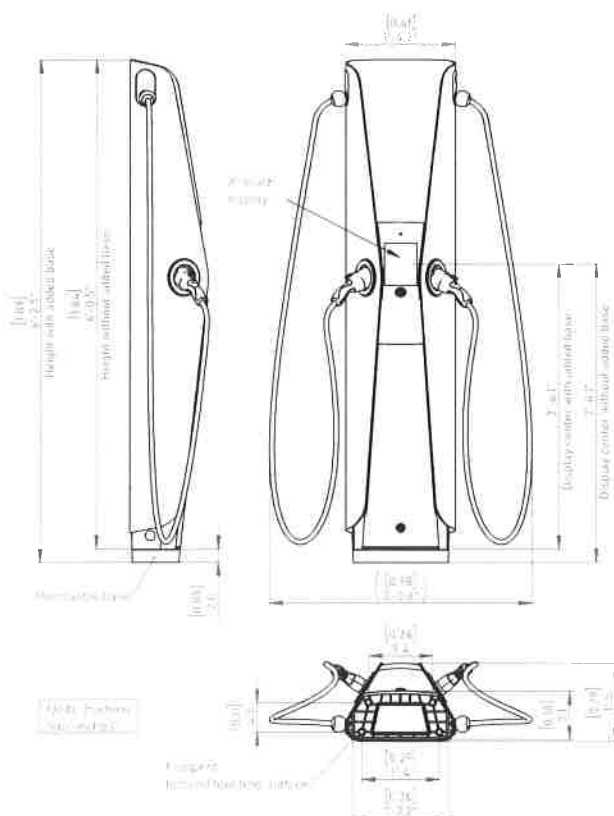reddot award 2019
winner urban design

⚡ 7.2 kW at 30 A charges
up to 25 miles in an hour

⌁ OCPP 1.6 compliant

〰 Integrated cable
management system

📶 Wi-Fi and 4G

📱 RFID/QR/NFC payments

✳ LCD display, LED ring,
and light guides

🛠 Easy to install and maintain

▯ Back-to-back and
wall mount installs

♿ ADA compliant

evbox.com

Electrical output standard	2x 7.2 kW (240 V AC – 30 A) / power line input 2x 32 A (max)
Electrical output shared	2x 3.8 kW (240 V AC – 16 A) / power line input 1x 32 A (max)
Charge mode	Level 2 (UL2594) / Mode 3 (IEC 61851)
Connector	2x SAE J1772 – fully sealed
Charge cable length	18' / 5.5 m
Locking holster	2x
Display	8" LCD IPS – full color – 768x1024 pixels – capacitive touch – sunlight readable
Systems lighting	Day & Night mode, automatic system wake-up, adjustable light intensity
Session activation	RFID/NFC (ISO 1443) / QR / NFC / *credit card tap&go (future option - tbd)*
Ground fault detection	CCID 20 mA AC (US) / 6 mA DC (EU) per outlet
Safety	Ground loss monitoring and surge protection 6 kV
Connectivity – Hub	4G LTE/FDD CAT1 with 3G UMTS/HSPA+fallback
Connectivity – Hub & Sat.	Dual band Wi-Fi 2.4/5 GHz, RF 911 MHz wireless station to station communication, BT 4.0 for configuration
Positioning	GPS / Wi-Fi
Communication protocol	OCPP 1.5 S / 1.6 J
Compliance	UL 2594, UL2231-2, UL 1998-3, UL 991 / IEC 61851-1, IEC 61851-22, UL, Energy Star, FCC
Enclosure rating	UL 50E - 3R / IEC 60529 IP 54 - IK 10
Plastic materials	UL 94 – V0 / US-FMVSS / ISO 3795 passed, DIN 53438 F1/K1
Metering	Dual UL-certified revenue grade kWh meter (with California's Title 24 compliance for service metering) / S-Bus MID certified class B
Operating temperature	-22 to 113°F / -30 to +50°C
Maximum cluster size	10 dual chargers (20 charge ports)
Dimensions	16.2"x 74.5"x11.5" / 415x1894x275 mm (WxHxD) with 2"/50 mm removable base extension

EVB⊙X