

Document Summary

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Revision History

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1.0 SCOPE

This product description is for a turn-key Envision EV Autonomous Renewal Charger (EV ARC), a fully self-contained, transportable solar-powered (photovoltaic), EV charging station.

2.0 APPLICABLE LAWS and INDUSTRY STANDARDS

Specifications, standards and regulations referenced in this document in effect on the opening of the invitation for bid, form a part of this specification.

2.1 LAWS and REGULATIONS

None listed

2.2 INDUSTRY STANDARDS

None listed

3.0 TECHNICAL REQUIREMENTS

The EV ARC includes all hardware and software required for a fully functional, portable, solar-powered EV charging system.

3.1 STANDARD FEATURES

- 3.1.1 Transportable
- 3.1.2 Ballasted pad (no foundation or trenching)
- 3.1.3 Fits into a single, 9 by 18 feet parking space
- 3.1.4 Rated to survive 110 mph winds
- 3.1.5 7.5 feet standard minimum clearance
- 3.1.6 On board battery storage

3.2 PHOTOVOLTAIC ARRAY SYSTEM

The photovoltaic (PV) array consists of:

- 3.2.1 Photovoltaic (solar) panels to absorb and directly convert sunlight into electricity
- 3.2.2 Solar inverter to change the electrical current from DC to AC
- 3.2.3 Solar tracking system to improve the system's overall performance
- 3.2.4 Photovoltaic Array Module
- 3.2.5 Mounting, cabling and other electrical accessories

3.3 CHARGING STATIONS

The charging stations:

- 3.3.1 Include a cord management system (cord hanger, automatic retraction, etc.)
- 3.3.2 Port Options:
 - L1/L2, SAE J1772
 - DCFC, SAE CCS and/or CHAdeMo
 - Outlets, 5-20R
- 3.3.3 Smart (networked/OCPP 1.5 or later) and/or Basic (not-networked)
- 3.3.4 ADA Compliant

4.0 OPTIONAL SERVICES

4.1 NETWORK SERVICES

Configure and activate (minimum 12 months) the smart charger to connect to a network provider (i.e. Chargepoint, EV Connect, OP Connect, etc.).

4.2 POINT of SALE (POS) and PAYMENT PROCESSING SERVICES

Provision the smart charger to provide POS capability that accepts payment by credit card, debit card and/or smartphone. The POS would be certified to one or both of the State's EPAY Master Service Agreement contractors for card processing.

Configure and activate (minimum 12 months) the smart charger payment processing to utilize a State selected contractor from the State's EPAY Master Service Agreement.

4.3 WIRELESS TELEMETRY

Can configure and activate (minimum 12 months) the EV ARC wireless telemetry capability to allow the State to monitor, access and control the system remotely via the web. Capabilities can include:

- Monitoring of the battery charging system
- Monitoring/controlling the canopy system
- Standard reporting

5.0 MISCELLANEOUS REQUIREMENTS

5.1 MANUAL

Provide user/operator manual with each unit delivered.

5.2 BASIC TRAINING

Provides a basic operational training with each unit delivered.