

Mobile Solar EV Charging Station Solar Eclipse **SCT20-EV**

The Solar Eclipse SCT20 EV is a revolutionary Electric Vehicle (EV) charging station that pairs the portability of the Solar Eclipse SCT20 Hybrid with ChargePoint's CT 4023 (Level 2) chargers. These charging stations can provide fast and convenient EV charging virtually anywhere.

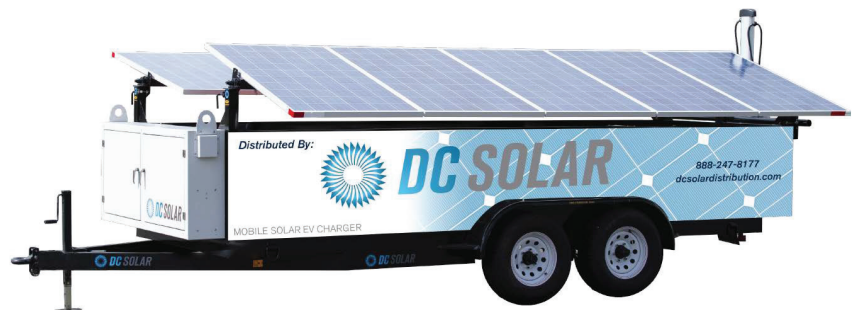
Our mobile charging stations eliminate the need for costly infrastructure, deploy quickly and increase mobility to the world's largest and most open EV charging network. With the proprietary ChargePoint app, drivers can easily find stations and check availability. Universal connectors work with all EV's, and ChargePoint's Clean Cord Technology make charging hassle-free.

Our charging stations require little to no fuel, keeping noise and emissions minimal to non-existent. State-of-the-art technology ensures optimum charging while advancing national, state and local initiatives to cut carbon emissions and reduce noise levels.

With extended maintenance intervals, reduced overall cost of operation, and superior customer service, DC Solar is committed to environmentally friendly energy solutions that outperform the competition.



SOLAR Eclipse™



SPECIFICATIONS

Outlets

120/240 50-Amp Hubbell Twist	2
120V 20-Amp Receptacle	4 (Minimum)

Inverter (120/240 Volt AC Split Phase)

Continuous	12kW
Surge	24kW
Amps @ 120V	200A

Battery (48 Volt Deep Cycle Industrial)

Amp Hours @ 48V Nominal	1,020Ah
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Solar Panels

Total Input (Watts)	2,400W
Panel Movement	Manual

Generator

Auxiliary Kubota GL 1100	11kW
Fuel Cell Capacity	100 Gallon
Fuel Consumption	.75 gal/hr
Decibel Rating	68 db (A) @ 23 ft.

Transport Dimensions

Width	8' 2"
Length	22' 6"
Height	8' 4"
Dry Weight	8,500 lbs.

Deployed Dimensions

Width	11' 11"
Length	22'
Height (Dependent on panel angle)	5' 9" - 8' 4"



SPECIFICATIONS

Electrical Input

AC Power Input Rating – Standard	208/240 VAC 60hz single phase @ 32A x 2
AC Power Input Rating – Power Sharing	208/240 VAC 60Hz single phase @ 32A
Input Power Connections – Standard	Two independent 40A branch circuits
Input Power Connections – Power Sharing Required	One 40 branch circuit
Service Panel Breaker – Standard Required Service	40A dual pole (non-GFCI type) x 2
Panel Breaker – Power Sharing Service Panel GFCI	40A dual pole (non-GFCI type)
Wiring – Standard	Do not provide external GFCI as it may conflict with internal GFCI (CCID)
Wiring – Power Sharing	5-wire (L1, L1, L2, L2, Earth)
Station Power	3-wire (L1, L2, Earth)

Electrical Output

AC - Standard	7.2kW (240VAC @ 30A) x 2
AC - Power Sharing	7.2kW (240VAC @ 30A) x 1 OR 3.6kW (240VAC @ 16A) x 2

Functional Interfaces

Connector(s) Type	SAE J1772 x 2
Charging Cable Length	18' (5.5 meters) x 2
Overhead Cable Management System LCD	Yes
Display	5.7" full color, 640 x 480, 30fps full motion video, active matrix, UV protected
Card Reader	ISO 15693, 14443, NFC
Locking Holster	Yes x 2

Safety and Connectivity Features

Ground Fault Detection Open Safety	20mA CCID with auto retry
Ground Detection Plug - Out	Continuously monitors presence of safety (green wire) ground connection
Detection	Power terminated per SAE J1772 specifications
Power Measurement Accuracy	+/- 2% from 2% to full scale (32A)
Power Report/Store Interval Local	15 minute, aligned to hour
Area Network	2.4 GHz Wi-Fi (802.11 b/g/n)
Wide Area Network	3G GSM, 3G CDMA

Safety and Operational Ratings

Enclosure Rating	Type 3R per UL SOE
Safety Compliance	UL listed for USA and cUL certified for Canada; complies with UL 2594, UL 2231-1, UL 2231-2, and NEC Article 625
Surge Protection	6kV @ 3000A. In geographic areas subject to frequent thunderstorms, supplemental surge protection at the service panel is recommended.
EMC Compliance	FCC Part 15 Class A
Operating Temperature	-22°F to 122°F (-30°C to +50°C)
Operating Humidity	Up to 85%@ +50°C (122°F) non-condensing
Non-Operating Humidity	Up to 95%@ +50°C (122°F) non-condensing
Terminal Block Temperature Rating	221°F (105°C)
Maximum Charging Stations per 802.11 Radio Group	10. Each station must be within 150' "line of sight" of a gateway station.