

EdgeEV150™

Specifications and Ordering Information



Single-Phase AC Power Source for Three-Phase Input for
Direct Current Fast Chargers (DCFC)

General Specifications

Utility Service Configuration

Service Type	Single-Phase
Service Voltage (required)	480 Vac
Service Wiring (required)	2-Wire (L1, L2, G)
Service Voltage (optional)	240/480 Vac
Service Wiring (required)	3-Wire (L1, L2, N, G)
Service Transformation (minimum)	167 kVA

Electrical Input

Connection Type	Single-Phase
Input Wiring Connections	L1, L2, N, G
Voltage	480 Vac
Voltage Tolerance	440-520 Vac
Frequency (standard)	60 Hz
Full-Load Input Current	370 A
Power Factor	0.98
Over-Current Protection	400 A
Power Disconnect	Yes

Efficiency and Power Quality Characteristics

Full Load Efficiency	98.7%
Standby Power Consumption	325 W
Full Load Input Voltage Distortion (V_{THD})	Typically < 3%
Full Load Input Current Distortion (I_{THD})	Typically < 10%
Input Surge Protection (standard)	Class I + II (IEC 61643-11)
Input Short Circuit Rating (standard)	35 kA

Electrical Output

Connection Type	Three-Phase
Connection Configuration (standard)	Delta
Wiring Connections (standard)	L1, L2, L3, G
Connection Configuration (optional)	Wye
Wiring Connections (optional)	L1, L2, L3, N, G
Voltage (L-L)	480 Vac
Voltage Balance	< 2%
Full-Load Output Current	198 A
Over-Current Protection	250 A
Power Disconnect	Yes

Enclosure & Environmental

Operating Temperature (standard)	-10 C (14 F) to 50 C (122 F)
Cold Weather Operating Temperature (optional)	-40 C (-40 F) to 50 C (122 F)
Storage Temperature	-40 C (-40 F) to 60 C (140 F)
Cooling Apparatus	Active Fan
Operating Altitude (without derating)	2000 m (6600 ft)
Ambient Humidity	< 95% RH (non-condensing)
Sound Level	< 70 dB
Enclosure Rating	NEMA 3R, NEMA 12, IP 55/IP65
Enclosure Dimensions (width x depth x height)	916 mm x 611 mm x 1830 mm
Enclosure Dimensions (width x depth x height)	36.06 in x 24.06 in x 72.06 in
Unit Weight	500 kg (1100 lbs)
Human Interface	7-Inch Touchscreen

Electrical Terminal Configuration

Terminal Configuration	Enclosed
Terminal Openings	Single (1) or Parallel (2)
Conductor Size (min to max)	6 AWG to 500 kCM
Fastening Method	Mechanical Hex Screw

Copper Conductor Recommendations

	Single	Parallel
Minimum Recommended Input Conductor (Cu)	750 kCM	250 kCM
Max Distance from Input Power Source (Cu)	1138 ft	756 ft
Minimum Recommended Output Conductor (Cu)	250 kCM	1/0
Max Distance from DCFC Station (Cu)	706 ft	596 ft

Dependent on project design requirements

Aluminum Conductor Recommendations

	Single	Parallel
Minimum Recommended Input Conductor (Al)	1250 kCM	350 kCM
Max Distance from Input Power Source (Al)	1151 ft	653 ft
Minimum Recommended Output Conductor (Al)	350 kCM	2/0
Max Distance from DCFC Station (Al)	601 ft	457 ft

Dependent on project design requirements

Connectivity

Service and Maintenance	Remote Monitoring
Application Interface	Cloud-Based Dashboard
Wide Area Cellular Network (standard)	4G, 5G
Local Area Network (standard)	Ethernet (RG45/RJ45)
Local Area Network (optional)	2.4 GHz / 5 GHz Wi-Fi

General Information

EdgeEV150™ Datasheet

Safety General	Emergency Stop
	Input/Output Disconnect
	Over-Voltage
	Under-Voltage
	Over-Current
	Over-Temperature
Monitoring Capabilities	Temperature
	Input Power
	Output Power
	Status
Regulatory Compliance	UL 508A
Standard Warranty	Standard 1-Year
Warranty Extensions	+2 Yr / +4 Yr



EdgeEnergy, inc.
5460 Muddy Creek Road
Cincinnati, OH 45238 USA

Contact Us

Visit: www.EdgeEnergyEV.com

Email: sales@edgeenergyev.com

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