

DS Series

90kW/120kW/150kW/180kW Free Standing DC Charger



SPECIFICATION

Model Name	DS90 Series
Safety	NRTL/cETLus (USA/Canada)
Outline (in)	<p>Technical drawing of the DS90 Series converter. The front view shows a width of 31 inches and a height of 75 inches. The side view shows a depth of 25 inches. The drawing includes details of the AC input terminals, a control panel, and the DC output terminals with associated cables.</p>

Power Specification

AC Input	Input Rating	3 Φ _480Vac (+10%, -15%)	
	Input Current	3P+N+PE (Wye Configuration), TN/ TT	
	Max. Input Current	DC System: 3 Φ 116A	
	Frequency	50Hz/60Hz	
	Power Factor	>0.99	
	Efficiency	>94%, at Optimize V/I Point	
DC Output	Output Voltage Range	CCS1/NACS: 150~950Vdc CHAdEMO: 150~500Vdc	
	Max. Output Current	NACS: 350A CCS1: 300A, Optional 375A CHAdEMO: 120A	
	Max. Output Power	DC 90kW	
	Voltage Accuracy	\pm 1%	
	Current Accuracy	\pm 1%	

User Interface & Control

Display	7" LCD
Push Buttons	Operating Buttons/Emergency Stop Button
User Authentication	RFID, QR Code and Optional Third Party Payment System
DC Meter	Yes

Communication

External	Ethernet, Wi-Fi & 4G
Internal	CAN Bus/RS485
ISO15118	Plug&Charge

Environmental

Operating Temperature	-22°F~122°F (-30°C~50°C)
Humidity	5%~95% RH, Non-Condensing
Altitude	≤6562ft (2000m)
IP/IK Level	NEMA 3R IK10 (not including screen & RFID module)
Cooling Method	Fan Cooling

Mechanical

Dimensions (WxDxH)	31 x 25 x 75in (800 x 650 x 1900mm) ±1%
Weight	≤860lbs (390kg) ±1%
Cable Length	13ft (4m) or 23ft (7m)

Protection

Input Protection	OVP, OCP, OPP, OTP, UVP, RCD, SPD, GFCI
Output Protection	OCP, SCP, OVP, LVP, OTP, IMD

Regulation

Certification	UL2202, UL2231 FCC Part 15 Subpart B ANSI C63.4; ICES-003 EnergyStar, CTEP, NTEP (NIST Handbook 44)
Charging Interface	CHAdEMO, DIN 70121, ISO15118, GB/T 27930

SPECIFICATION

Model Name	DS 120 Series
Safety	NRTL/cETLus (USA/Canada)
Outline (in)	<p>Technical drawing of the DS 120 Series charger. The front view shows a width of 32 inches and a height of 75 inches. The side view shows a depth of 26 inches. The drawing includes details of the AC input terminals, DC output cables, and the main control panel.</p>

Power Specification

AC Input	Input Rating	3 Φ _480Vac (+10%, -15%)
	Input Current	3P+N+PE (Wye Configuration), TN/ TT
	Max. Input Current	DC System: 3 Φ 155A
	Frequency	50Hz/60Hz
	Power Factor	>0.99
	Efficiency	>94%, at Optimize V/I Point
DC Output	Output Voltage Range	CCS1: 150~950Vdc CHAdeMO: 150~500Vdc
	Max. Output Current	CHAdeMO: 120A; CCS1: 300A/375A; NACS: 350A
	Max. Output Power	DC 120kW
	Voltage Accuracy	\pm 1%
	Current Accuracy	\pm 1%

User Interface & Control

Display	7" LCD
Push Buttons	Operating Buttons/Emergency Stop Button
User Authentication	RFID, QR Code and Optional Third Party Payment System
DC Meter	Yes

Communication

External	Ethernet, Wi-Fi & 4G
Internal	CAN Bus/RS485
ISO15118	Plug&Charge

Environmental

Operating Temperature	-22°F~122°F (-30°C~50°C)
Humidity	5%~95% RH, Non-Condensing
Altitude	≤6562ft (2000m)
IP/IK Level	NEMA 3R IK10 (not including screen & RFID module)
Cooling Method	Fan Cooling

Mechanical

Dimensions (WxDxH)	32 x 26 x 75in (800 x 650 x 1900mm) ±1%
Weight	≤191lbs (420kg) ±1%
Cable Length	13ft (4m) or 23ft (7m)

Protection

Input Protection	OVP, OCP, OPP, OTP, UVP, RCD, SPD, GFCI
Output Protection	OCP, SCP, OVP, LVP, OTP, IMD

Regulation

Certification	UL2202, UL2231 FCC Part 15 Subpart B ANSI C63.4; ICES-003 Energy Star, CTEP, NTEP (NIST Handbook 44)
Charging Interface	CHAdEMO, DIN70121, ISO15118

SPECIFICATION

Model Name	DS 150 Series
Safety	NRTL – cETLus (USA/Canada)
Outline (in)	<p>Technical drawing of the DS 150 Series charging station. The drawing shows two views: a front view and a side view. The front view shows a vertical rectangular unit with two charging cables attached to the sides. The side view shows the depth of the unit. Dimensions are indicated: 32 inches for the width of the front view, 26 inches for the depth of the side view, and 75 inches for the height of the front view.</p>

Power Specification

AC Input	Input Rating	3 Φ _480 Vac (+10%, -15%)
	Input Current	3P+N+PE (Wye Configuration), TN/TT
	Max. Input Current	DCSystem: 3 Φ 194A
	Frequency	50Hz/60Hz
	Power Factor	>0.99
	Efficiency	>94%, at OptimizeV/I Point
DC Output	Output Voltage Range	CCS1: 150~950Vdc CHAdEMO: 150~500Vdc
	Max. Output Current	CHAdEMO: 120A; CCS1: 300A/375A; NACS: 350A
	Max. Output Power	DC150kW
	Voltage Accuracy	\pm 1%
	Current Accuracy	\pm 1%

SPECIFICATION

User Interface & Control

Display	7" LCD
Push Buttons	Operating Buttons / Emergency Stop Button
User Authentication	RFID, QR Code and Optional Third Party Payment System
DC Meter	Yes

Communication

External	Ethernet, Wi-Fi & 4G
Internal	CAN Bus/RS485
ISO15118	Plug&Charge

Environmental

Operating Temperature	-22°F~122°F (-30°C~50°C)
Humidity	5%~95% RH, Non-Condensing
Altitude	≤6561ft (2000m)
IP/IK Level	NEMA 3R IK10 (not including screen & RFID module)
Cooling Method	Fan Cooling

Mechanical

Dimensions (WxDxH)	32 x 26 x 75in (800 x 650 x 1900mm) ±1%
Weight	≤209lbs (460kg) ±1%
Cable Length	15ft (4.5m) or 23ft (7m) Optional

Protection

Input Protection	OVP, OCP, OPP, OTP, UVP, SPD, GFCI
Output Protection	OCP, SCP, OVP, LVP, OTP, IMD

Regulation

Certification	UL2202,UL2231 FCC Part 15 Subpart B ANSI C63.4; ICES-003 EnergyStar, CTEP, NTEP (NIST Handbook 44)
Charging Interface	CHAdEMO, DIN70121, ISO15118

SPECIFICATION

Model Name	DS 180 Series
Safety	NRTL/cETLus (USA/Canada)
Outline (in)	<p>Technical drawing of the DS 180 Series power converter. The drawing shows two views: a front view on the left and a side view on the right. The front view shows a vertical cabinet with two large cables on the left and right sides. The side view shows the depth of the cabinet. Dimensions are indicated: 32 inches for the width of the front view, 75 inches for the height, and 26 inches for the depth of the side view.</p>

Power Specification

AC Input	Input Rating	3 Φ _480Vac (+10%, -15%)
	Input Current	3P+N+PE (Wye Configuration), TN/TT
	Max. Input Current	DC System: 3 Φ 233A
	Frequency	50Hz/60Hz
	Power Factor	>0.99
	Efficiency	>94%, at Optimize V/I Point
DC Output	Output Voltage Range	CCS1: 150~950Vdc CHAdEMO:150~500Vdc
	Max. Output Current	CHAdEMO: 120A; CCS1: 300A/375A; NACS: 350A
	Max. Output Power	DC 180kW
	Voltage Accuracy	$\pm 1\%$
	Current Accuracy	$\pm 1\%$

User Interface & Control

Display	7" LCD
Push Buttons	Operating Buttons/Emergency Stop Button
User Authentication	RFID, QR Code and Optional Third Party Payment System
DC Meter	Yes

Communication

External	Ethernet, Wi-Fi & 4G
Internal	CAN Bus/RS485
ISO15118	Plug&Charge

Environmental

Operating Temperature	-22°F~122°F (-30°C~50°C)
Humidity	5%~95% RH, Non-Condensing
Altitude	≤6562ft (2000m)
IP/IK Level	NEMA 3R IK10 (not including screen & RFID module)
Cooling Method	Fan Cooling

Mechanical

Dimensions (WxDxH)	32 x 26 x 75in (800 x 650 x 1900mm) ±1%
Weight	≤1102lbs (500kg) ±1%
Cable Length	15ft (4.5m)/23ft (7m) Optional

Protection

Input Protection	OVP, OCP, OPP, OTP, UVP, SPD, GFCI
Output Protection	OCP, SCP, OVP, LVP, OTP, IMD

Regulation

Certification	UL2202, UL2231 FCC Part 15 Subpart BANSI C63.4; ICES-003 Energy Star, CTEP, NTEP (NIST Handbook 44)
Charging Interface	CHAdEMO, DIN70121, ISO15118