Datasheet UL

EVMax HYC 200



Up to **97.5 %**
efficiency under full load

Up to **600 A**
output

50 kW
granularity providing dynamic load management

150 - 1000 V
future-proof output range

Bidirectional
future capability

Integrated power electronics
in an ultra-compact design

Simultaneous DC charging
for up to 2 cars

Power-Stack concept:
Scalable power

100 kW to 200 kW
DC-charging system for EVs

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EVMax HYC200

General information

Operating temperature	-30°C up to +55°C (-22°F to 131°F)[2]
Storage/transport temperature	-40°C to 70°C (-40°F to 158°F)
Altitude	<4,000 m (< 13,000 ft)[2]
Humidity (in operation, storage)	Up to 95% non-condensing
Enclosure type	NEMA 3R (IP54) Indoor/Outdoor
Impact resistance (IEC 62262)	IK10
Noise emission	< 52 dBA[1]
Dimensions (H x W x D)	86 x 16 x 26 in (2185 x 420 x 663 mm)
Weight	717 lbs up to 1019 lbs (325 kg up to 462 kg)[3]
Accessibility	Meets ADA requirements for height and reach
User interface	15.6” display, 4 buttons, RGB connector status
Multilingual system	GUI in 27 languages
Remote management	Access control, configuration, diagnostics, software updates

Configuration Options

Branding	Options for custom colors (powder coating), custom vinyl
CMS (Cable Management System)	Metal swing arm keeps 16.4 ft (5 m) off the ground
Payment system	Credit card reader optional (Payter/Nayax), EMV Chip, Tap to Pay

Compliance and Safety

NRTL	UUL 2202, UL 2231-1, UL 2231-2 CSA C22.2 No. 346.22, No. 281.1-12, No. 281.2-12 File No. E515867
Metering	CTEP No. 5966-24
EMC	FCC 47CFR Part 15B (Class A)
Electrical safety	NEC (NFPA 70) Article 625

HYC200

Charging Interfaces

Connection options	CCS1, J3400 (NACS), CHAdeMO
Cable lengths	11.5 ft (3.5 m), 16.4 ft (5 m), 25 ft (7.5 m)
RFID system	ISO/IEC 14443A/B, ISO/IEC 15693, NFC
Network communications protocol	Dual SIM, 4G LTE Modems 10/100 Base-T Ethernet
Energy management	Configurable static power limit, Dynamic Power limit via OCPP/Modbus
Network communications protocol	Open Charge Point Protocol (OCPP) 1.6 and 2.0.1 Modbus, API
Vehicle communications protocol	DIN 70121, ISO 15118, Autocharge, Plug and Charge, CHAdeMO 1.2

Electrical

AC nominal voltage (RMS)	480 V ±10%
AC nominal input current (RMS)	240 A
Input connection	3-Phase: L1, L2, L3, GND (no neutral)
Frequency	60 Hz
Power factor	> 0.99 at full load
THDi (Total harmonic distortion)	< 5% at full load
Conversion efficiency	up to 97.5% at full load
SCCR	65 kA
Surge protection	Type 1, In 20 kA, Imax 50 kA
Standby power consumption	43 W
DC output	100 kW (one Power-Stack), max. 300 A 200 kW (two Power-Stacks), max. 600 A
Output voltage	150 - 1000 VDC

[1] Standard environmental conditions 60°F [20°C], 10 ft [3 m] distance
[2] See Manual for environmental derate
[3] Depending on the configuration