POWER TECHNOLOGY
THE EV CHARGING COMPANY

AC Home Smart 50A

A hardwired residential Level 2 charger with dual current transformer inputs for sites that need to monitor panel loads.

Maximum output	50 A / 12 kW at 240 V
Supply voltage	208/240 V AC
Vehicle connectors	SAE J1772 or SAE J3400 (NACS), by SKU
Mounting	Wall, hardwired
Cable	25 ft on the source NACS configuration
Connectivity	Wi-Fi, Bluetooth and RS485 per OEM

Confirm specifications, connectors and options for your selected configuration with Power Technology Solutions.

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Technical specifications

Charging	
Maximum output	12 kW at 240 V
Maximum current	50 A
App-adjustable current	6–50 A, within the hardware current limit
Hardware current settings	16 / 24 / 32 / 40 / 48 / 50 A
Input voltage and frequency	208 / 240 V AC, 50 / 60 Hz
Connector and Cable	
Vehicle connector	NACS or SAE J1772, by order configuration
Cable length	25 ft / 7.5 m
Installation	
Installation type	Hardwired
Mounting	Wall mounted
Installation design	One-click main unit with a separate wiring box
Input connections	L1, L2 and protective earth (PE)
Circuit breaker	60 A for 48 A output; 70 A for 50 A output
Load Management and Metering	
CT monitoring	Two current transformer inputs. Sensor kits with 2 × 100 A or 2 × 200 A are listed. Match sensors to the selected order code.
Dry contact	Supported
Metering certification	NTEP / CTEP
Metering accuracy	±1%

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Technical specifications continued

Connectivity and Controls	
Wireless connectivity	Wi-Fi and Bluetooth
Wired communication	RS485
Mobile app	Charging app
RFID	Supported
Status display	LED status ring; no digital display
Protection and Environment	
Enclosure rating	NEMA 4X / IP54
Impact resistance	IK10
Ground-fault detection	20 mA CCID
Electrical protection	Overcurrent, overvoltage, undervoltage, overtemperature and integrated surge protection
Operating temperature	-40 to 131 °F (-40 to 55 °C)
High-temperature operation	Output derates above 113°F (45°C)
Dimensions and Weight	
Dimensions (H × W × D)	12.4 × 6.7 × 4.6 in / 315 × 170 × 117 mm
Weight with 25 ft cable	Approx. 12.6 lb / 5.7 kg
Warranty	
Charger warranty	5-year hardware replacement term listed for the source configuration
CT sensor warranty	3 years

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Configuration and application notes

Dynamic management

Dual CT inputs monitor household demand so charging can adapt within the configured current limit. Compatible solar integration supports charging from surplus generation.

Specifications and hardware warranty terms vary by configuration. Confirm the selected equipment and coverage with Power Technology Solutions.