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E-QSR ENERGY EV CHARGING SYSTEMS

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22KW 32A(→)3.2KW 16A /1 PHASE / 50CM

What is a 22kW 32A Charging Adapter? Power Capacity: 22 kilowatts (kW) Current: 32 amps (A) Number of Phases: 3-Phase (400V three-phase system)
Usage Area: Fast AC charging of electric vehicles



TECHNICAL SPECIFICATIONS

Feature	Description
Input Voltage	400V (AC, 3-phase)
Output Current	32 Amps
Maximum Power	7kW
Connection Type	Usually Type 2 (Mennekes)
Charging Time	Shorter (Fast AC, though not as fast as DC)
Cable Type	5x6 mm ² or similar, thickly insulated charging cable
Protection Features	Overcurrent, short circuit, and ground fault protection

Charging Time Calculation with 7kW (Approximate)

Battery Capacity	Charging Time (~)
40 kWh	~2 hours
60 kWh	~2.7 hours
77 kWh	~3.5 hours

Note: These times are estimated for a full charge from 0% to 100%. Actual time will vary depending on the charger, vehicle, and ambient conditions.

Areas of Use

Commercial charging stations

Apartment/complex charging systems

Fast wallbox installations (homes with compatible electrical infrastructure)

Company parking lots/fleet management

Advantages

One of the fastest options in the AC charging category.

Can be used with systems that can support multiple vehicles simultaneously.

Significantly reduces long waiting times.

Notes

Requires a 3-phase electrical system (not available in every home).

Your electrical system must support a 22kW load.

Your vehicle's AC charging support must be 22kW. Otherwise, the vehicle will charge at a slower rate, even if the adapter is 22kW.

It must be installed with appropriate cable cross-section and protective equipment (switch, residual current device, etc.).

22kW vs. 7kW Comparison

Features 7kW (32A Single-Phase) 22kW (32A Three-Phase)

Number of Phases 1 (Single-Phase) 3 (Three-Phase)

Charging Time Longer Shorter

Infrastructure Requirements Low High

Home Suitability Widespread Limited (depending on infrastructure)



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