Compact | Connected | Convenient

Electric Vehicle Charger

ChargeGrid
PENTA

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PRODUCT
HIGHTLIGHTS

Rigorously tested, internationally certified, ChargeGrid PENTA offers a **reliable, connected & smart** charging solutions. Get **user-friendly, premium experience** every time you charge.

ChargeGrid PENTA models offer either Type 1 charging with IEC 60309 outlet socket or Type 2 charging with gun for smooth charging experience. Suitable for:

Fleet Depots

Commercial Workplaces

Parking Bays

Residential Complexes

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KEY
FEATURES

- External antenna for better network reception
- IEC Socket or Type 2 Gun
- RFID (offline mode) or App based (online mode) user authentication
- OCPP 1.6 based communication protocol

Safe, Monitored, Regulated

- 4G / GSM connectivity
- Multi-colored LED for charging & error status indication
- Emergency push-button
- Easy "Plug & Play" installation

TECHNICAL
DATASHEET

POWER RATINGS	PENTA Type 2	PENTA IEC
Number of Phase	1-Phase	
Rated I/P Voltage	230V, 1-P, 50Hz, 32A	230V, 1-P, 50Hz, 16A
Rated Current	32A	16A
Rated O/P Voltage	230V, 1-P, 50Hz, 32A	230V, 1-P, 50Hz, 16A
STANDARDS & CHARGING MODES		
Connector Type	Type 2 (Mennekes Gun)	IEC 60309 (Industrial Socket)
Charging Mode	Type2	Type1
Certification	IEC 61851	
MECHANICAL		
Input Connector	32A plug and play type	16A plug and play type
Output Connector	Type 2 (32A)	IEC 60309 Socket (16A)
Mounting Type	Wall mount	
Cable Holding	Wall mount bracket for cable holding	Not Required
Accessories	Mounting brackets, Hardware, Cable holding bracket	Mounting brackets, Hardware
Degree of protection (plugged in)	IP-55	
Weight	5kgs approx	
Dimensions	H-300mm, W- 200mm, D-120mm	
AMBIENT OPERATING CONDITIONS		
Ambient Temperature	-40 °C to +80 °C	-25°C to 80°C
Operating Temperature	-5°C to 55°C	-30°C to 80°C
Storage Temperature	-30°C to 80°C	
ELECTRICAL PARAMETERS		
Max Power	7.4kW	3.3kW
Charging Power	Alternating Current	
Power Contacts	L, N, PE	
NETWORK CONNECTIVITY & AUTHENTICATION		
Connectivity Mode	WiFi/GSM/4G (Ethernet Optional)	
Authentication	OCPP 1.6	
MATERIAL		
Color	Power coated – RAL 7035 light gray	
Protection Category	NEMA 4/ IK08	

PRODUCT
FAQ

01.
Are connector options available?

The two connector options available are Type-2 socket Model: PENTA-GL02P1(7) and IEC socket Model: PENTA-SL01P1(3).

02.
Which electric vehicles can be charged using ChargeGrid PENTA?

Basis the type of model selected, this AC charger is designed to charge all the electric vehicles available on Indian roads including 2 wheelers, 3 wheelers and cars.

03.
How much time will it take to charge the electric vehicles?

Depending on the vehicle & BMS, the approximate time required for charging 2 wheelers is 60 minutes, 3 wheelers will get charged in 90 minutes and 4 to 5 hours for cars.

04.
What is the warranty provided?

Given the confidence in our design, we provide 12 months complete module replacement warranty and LED panel replacement in case of fault in LED.

05.
What is the minimum order quantity and delivery timeline?

The minimum order quantity for standard off the shelf product is 10 nos. for India and 100 nos. for international markets with approximately 45 days delivery lead time against confirmed order.

06.
Is modification/ white labelling possible?

Yes, white labelling of the product is available subject to order quantities above 100 nos. and design approvals.

07.
Will ChargeGrid PENTA include AMC support? If yes, provide terms & condition and charges for the same?

Yes, Annual Maintenance Services are available at additional costs and can be provided. AMC costs will depend on multiple factors including number of chargers, city, distance etc. However, given that there are no moving parts, the AMC chargers are nominal and can be confirmed in discussion with our sales representatives.
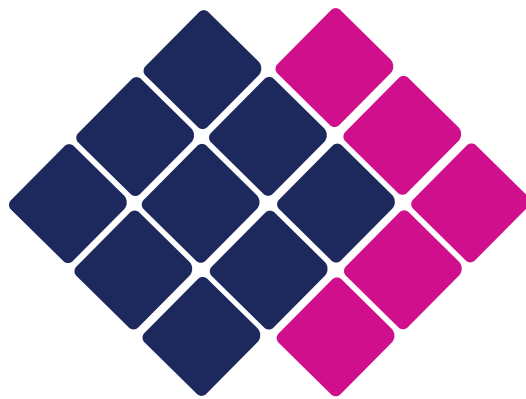
08.
Can we install EV charging station billing meter installed with the pole charger?

Yes, ChargeGrid PENTA is compliant with EVCS tariff billing meter. However, application, approvals & installation is not part of supply scope of Magenta.

09.
What are the other modes of charger communication available?

The current version of our charger offers Sim card based 2G/3G/4G options. We offer RFID, Ethernet & Bluetooth communication options.

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