

# FF SERIES

## 60-180kW DC CHARGER

The Deltrix FF Series DC charger is a configurable-multiple-outlet high-power charger which is suitable for CBD or public areas. The product consists of human-machine interaction part, power module, internal control system, communication module and charging cable assembly. This Charger is great for mounting in your garage, business, racing, or RV park. It is very useful to have as a backup charger for use on the race track, in a tow truck, in an SUV, trailer or anywhere you need power. This affordable 60kW - 180kW DC Charger is perfect to install for charging electric vehicle at maximum speed as well as many EV cars. Take on road trips through rural areas with RV or industrial areas being the main power sources for EV travellers. This unit will greatly speed up you or your customers charging.



## KEY FEATURES

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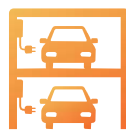
- Modular design including control system, power source system, distributed power system, power factor system
- Auto sleep mode after fully charged with low standby power consumption at <5W
- Remote firmware upgrade with APP
- Remote power module upgrade
- Remote diagnostic function simplifies data collection and analysis process
- IP54 Waterproof protection
- Cable length 5M (CHAdeMO) , 5M (CCS), 5M(GB/T) Customized acceptable
- Efficiency up to 96% at nominal output power
- Ethernet, Wi-Fi and 4G Module support platform - optional
- Back-office system integration with OCPP 1.6 on demand
- Easy to install and operate
- Full customization available (colour and logo)

## APPLICATION AREAS

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Public and Private Garages



Commercial Buildings



Hotels and Restaurants



EV Dealerships



Commercial fleet operators



EV infrastructure operators and service providers

# TECHNICAL SPECIFICATIONS

**DELTRIX**

Model	60FF	90FF	120FF	180FF
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## Input Parameter

Input Voltage	Option 1 : 380/400Vac 50 / 60 Hz Option 2 : 260-750Vdc for customized			
Input Connection	3P + N + PE			
Input Current	95A	140A	190A	285A
Power Factor	>0.99 @nominal voltage (100% load)			
Full Load Efficiency	≥96%			

## DC Output

Output Voltage Range	200~750Vdc	200~1000Vdc for customized		
Max. Output Current	100A	200A	250A	250A
Max. Output Power	60kW	90kW	120kW	180kW
Power Module	30kW x 2pcs	30kW x 3pcs	30kW x 4pcs	30kW x 6pcs
Connector Single Mode(max.)	60kW	90kW	120kW	180kW
Connector Double Mode(max.)	30kW	60kW + 30kW	60kW	90kW
Output Protection	Overcharge Protection, Overheat Protection, Low-voltage Protection, Over Discharger Protection, Lightning Protection, Over-current Protection Short-circuit Protection			

# TECHNICAL SPECIFICATIONS

## Environmental

Operating Temperature -25~50°C

Humidity 0%-95% RH, non-condense

Altitude <2000m

IP Level IP54

## General

Display 7" LCD touch-screen - optional

Emergency Stop Control Press emergency stop button

Display Information Charging process and status, Alarm and warning messages

External Communication Ethernet, Wi-Fi & 4G - optional

Internal Communication CAN Bus / RS485

Dimensions (H x W x D) 1747 x 960 x 619mm, excluding plug and cable

Weight	200KG	230KG	310KG	330KG
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Charger Cable Length 5M (CHAdeMO) , 5M (CCS), 5M(GB/T) Customized acceptable

Back Office Integration OCPP 1.6

Compliance and safety RoHS: EN 50581

Charging Protocol GBT27930 / CHADEMO 2.0 / DIN 70121,OCPP 1.6(JSON), ISO 15118

Cooling Air cooling

Part Numbers	60FF0750	90FF0750	120FF0750	180FF0750
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