

MaxiCharger DC HiPower

320 kW - 640 kW



MaxiCharger DC HiPower

640 kW Ultra Fast Charger



Ultra-Fast

Accelerate Revenue and User Engagement

- Max. 640 kW output power; Max. 650-amp output current; Max. 480 kW single cable output power.
- Liquid-cooling and low-temp fast charging tech provides up to 400 km of range in 10 min.



Intelligent

Optimize Power Efficiency

- Energy Cube (Matrix switching algorithm patented by Autel) and an AI-driven switching algorithm minimize expansion costs and optimize power capability utilization.
- Operational intelligence through load balancing minimizes power consumption while enhancing station performance.



Reliable

Drive High Uptime

- Unified hardware and software design minimizes failure rates, enhances maintainability, and guarantees optimal uptime.
- Vehicle-charger compatibility is up to 99.5%, and the success rate of a one-time charge is up to 99.5%.
- Streamlined maintenance with redundant backup modular design enables single-module replacement in just 3 minutes.



Scalable

Meet Growing Demand

- Starts at 320 kW, expandable up to 640 kW with added power modules.
- Adapt the dispenser count based on demand, enabling simultaneous charging for up to 8 vehicles.
- Compatible with solar power, energy storage, and energy management systems(EMS).

Technical Specification (Dispenser)

DC Output Connection	Liquid Cooling Dispenser	Boost Dispenser
Charging mode	Mode 4: CCS2	Mode 4: CCS2
Output1 power	480kW	240kW
Output1 voltage	150-950V	150-950V
Output1 current	CCS2 500A (Max. 650A)	CCS2 300A (Max. 400A) , 200A
Output2 power	480kW	(Optional) 240kW
Output2 voltage	150-950V	150-950V
Output2 current	CCS2 500A (Max. 650A)	CCS2 300A (Max. 400A) , 200A
Number of outputs	2*CCS2	(Optional) 2*CCS2, or 1*CCS2 +1*CHAdcMO
General Characteristics	Liquid Cooling Dispenser	Boost Dispenser
Enclosure rating	IP54	IP54
Operating altitude	3000m	3000m
Operating temperature range	-35°C ~ +55°C	-35°C ~ +55°C
Storage temperature range	-40°C ~ +70°C	-40°C ~ +70°C
Mounting	Floor Standing	Floor Standing
Dimensions (H×W×D)	2075×580×320 mm	2075×580×320 mm
Screen type	15.6 inch LCD Touch Screen (1920*1080)	15.6 inch LCD Touch Screen (1920*1080)
Cable length	5m	5m
User Interface	Liquid Cooling Dispenser	Boost Dispenser
Status indication	LED/LCD/APP	LED/LCD/APP
User interface Connectivity	Autel Charge APP; Autel Charge Cloud	Autel Charge APP; Autel Charge Cloud
Communication protocols	Ethernet	Ethernet
User authentication	OCPP 1.6J (OCPP 2.0.1 Optional) APP, RFID card, QR code, Credit Card (Optional)	OCPP 1.6J (OCPP 2.0.1 Optional) APP, RFID card, QR code, Credit Card (Optional)
Software Update	Liquid Cooling Dispenser	Boost Dispenser
Software update	OTA updates via web portal	OTA updates via web portal
Certification and Standards	Liquid Cooling Dispenser	Boost Dispenser
Safety standards	IEC 61851-1; IEC 61851-23; IEC 61851-21-2; ISO 15118	IEC 61851-1; IEC 61851-23; IEC 61851-21-2; ISO 15118
Certification	CE, EMC Class A	CE, EMC Class A
Design life	10 years	10 years
Warranty	24 months, warranty extension possible	24 months, warranty extension possible

Technical Specification (Power Cabinet)

AC Input	480kW (Air Cooling)	640kW (Air Cooling)
Earthing system	3P+N+PE	3P+N+PE
Input voltage	3-phase 400V AC $\pm 15\%$ (2 Routes)	3-phase 400V AC $\pm 15\%$ (2 Routes)
Input frequency	50Hz	50Hz
Power factor	≥ 0.99	≥ 0.99
Harmonic distortion (THDi)	$\leq 5\%$	$\leq 5\%$

General Characteristics	480kW (Air Cooling)	640kW (Air Cooling)
Number of outputs (Max.)	8	8
Minimum adjustable power	40kW	80kW
Connectivity	4G, Wi-Fi, Ethernet	4G, Wi-Fi, Ethernet
Peak efficiency	$\geq 96\%$	$\geq 96\%$
Enclosure rating	IP54	IP54
Operating altitude	3000m	3000m
Operating temperature range	-35°C ~ +55°C	-35°C ~ +55°C
Storage temperature range	-40°C ~ +70°C	-40°C ~ +70°C
Mounting	Floor Standing	Floor Standing
Dimensions (H×W×D)	2000×1700×900 mm	2000×1700×900 mm

Certification and Standards	480kW (Air Cooling)	640kW (Air Cooling)
Safety standards	IEC 61851-1; IEC 61851-23; IEC 61851-21-2; ISO 15118	IEC 61851-1; IEC 61851-23; IEC 61851-21-2; ISO 15118
Certification	CE, CB, UKCA, RCM	CE, CB, UKCA, RCM
Design life	10 years	10 years
Warranty	24 months, warranty extension possible	24 months, warranty extension possible

* All pictures shown are for illustration purpose only, actual product and specifications may vary due to product enhancement



Phone: 0800 387877
E-mail: info@thundergrid.net
Website: thundergrid.net

Thundergrid

