

One-Stop Intelligent Charging Network

MaxiCharger DS600L
Liquid-cooled System

Ultra-Fast Charging

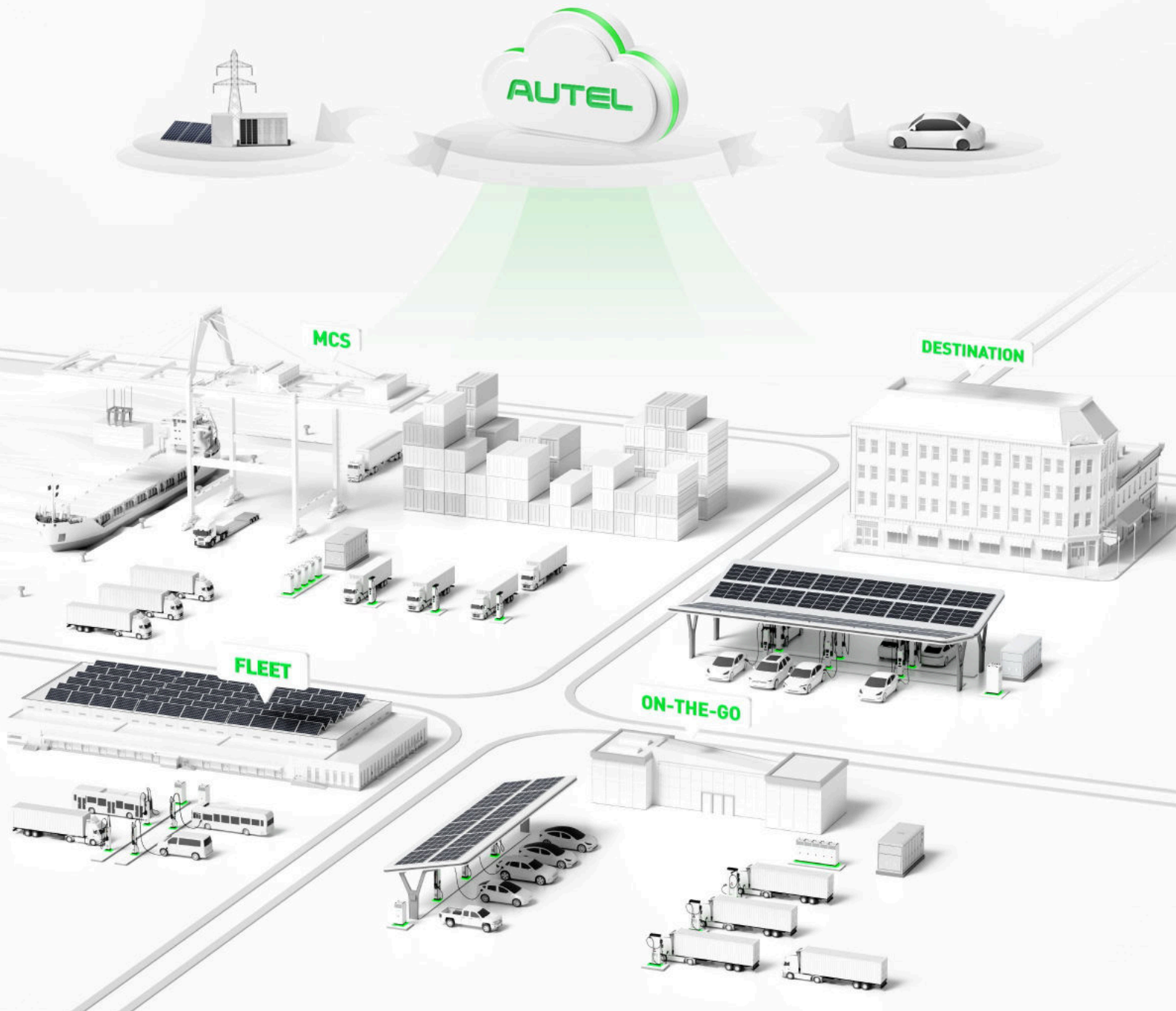
Charge up to 600km in 10 minutes,
and support 3MW seamless power
expansion

PV-ESS-EVSE Collaboration

97% E2E charging efficiency, and
+2.5% PV-ESS-EVSE efficiency via
DC bus

Extended Lifespan

Extreme conditions ready with IP55
and C5-M, ensuring 99% uptime
over a 15-year lifespan





MaxiCharger DS600L liquid-cooled system employs advanced SiC charging modules, AI algorithms, and mesh networking to enable seamless PV-ESS-EV energy integration. It supports modular expansion and megawatt-level fast charging, and low-noise operation, powered by dual-stage architecture optimized via a DC bus. AI-driven O&M and redundancy design ensure high system uptime and extended lifespan, which together contribute to a significantly lower total cost of ownership (TCO). Ideal for EV fleets and integrated solar-storage-charging hubs, it maximizes energy efficiency and operational revenue through intelligent, maintenance-free performance.

Ultimate Experience



Ultra-Fast Charging

Charge up to 600km
in 10 minutes



PV-ESS-EVSE

PV-ESS-EVSE
synergy enhanced
by 2.5% via DC bus.



Smarter Charging

Charging success rate
exceeds 95% driven by
intelligent vehicle recognition

Superior Performance



Extended Lifespan

15-year lifespan and
carefree maintenance



Reliable Quality

IP55 and C5-M
protection for
extreme conditions



Always Online

Over 99% uptime with 1+1
mainboard backup and
intelligent O&M

Maximum Yield



Scalable Capacity

3MW power cabinets expansion
with smaller footprint



Peak Efficiency

97% E2E charging
efficiency with up to 10
vehicles charged at once



Lower Energy Cost

Over 30% savings via PV-ESS-
EVSE peak-valley arbitrage and
demand charge optimization.

MaxiCharger DS600L Liquid-cooled System

Charging Power Unit

600kW

Max. output power

97%

Charging efficiency

C5-M

Anti-corrosion degree



Liquid-cooled Charging Power Unit



DS600L

DC Output

Output Power	360kW - 600kW
Minimum Adjustable Power	60kW granularity
Output Voltage	200 - 1000V
Peak Efficiency	97%
Number of Outputs	10

AC Input

Input Voltage	3-phase 400V AC $\pm 10\%$
Input Frequency	50Hz/60Hz
Earthing System	TN-S, TN-C, TN-C-S, TT
Input Connection	3 Phases+PE
Power Factor	≥ 0.99
Harmonic Distortion (THDi)	$< 3\%$
Overvoltage Category	AC side (Input) OVC: III

General Specifications

Dimensions (WxDxH)	900mm x 1050mm x 2250mm
Connectivity	Double SIM 4G, 5G, Wi-Fi, Ethernet
Standby Power	$< 85W$ (Depending on configuration)
Enclosure Rating	IP55, IK10
Anti-corrosion Degree	C5-M
Communication to the EV	ISO/IEC 15118 with PnC, DIN 70121
Software Update	OTA updates via web portal, FTP, FTPS, HTTPS
Accessibility	Meets ADA requirements for height, reach, and user interface
Emergency Button	Yes
Warranty	24 months, warranty extension possible

User Interface

Status Indication	Yes
Languages	English, French, Spanish, German, Italian (others available via software upgrade)
RFID Protocols	ISO 14443 A/B, ISO/IEC 15693, MIFARE
Communication Protocols	OCPP 1.6J (OCPP 2.0.1 Optional)

Environmental Specifications

Humidity	$< 95\%$ RH, non-condensing
Operating Altitude	2000m
Operating Temperature Range	-35°C to 55°C
Storage Temperature Range	-40°C to 70°C
Noise	$\leq 55\text{dBA}^{\text{①}}$ (Silent Mode)
EMC Compliance	EMC Class A
Compliance and Safety	IEC 61851-1, IEC 61851-21-2, IEC 61000, Eichrecht
Certification	CE; UKCA; TR25; ETSI EN 303645; TÜV

(1) Standard environmental conditions 25°C, 1 m distance



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MaxiCharger DS600L Liquid-cooled System

Charging Dispenser

1500A

Max. output current for
Megawatt Charging System

0.1m²

Smaller
footprint

1-2ports

Number of
outputs



Charging Dispenser



DT800		DT500		DT1500	
DC Output					
Output Current	Liquid-cooled Cable: 500A (Max. 650A)		Uncooled Cable: 380A (Max. 500A);		Liquid-cooled Cable: 1500A+500A (Max. 650A)
Output Voltage	150 - 1000V				
Number of Outputs (Max.)	2 or 1		2 or 1		2
Charging Mode	2*CCS2; 1*CCS2		2*CCS2; 1*CCS2		1*MCS+1*CCS2
General Specifications					
Dimensions (W×D×H)	322mm x 322mm x 1950mm		322mm x 322mm x 1650mm		280mm x 780mm x 2285mm
Screen Type	8 inch LCD Touch Screen				
Cable Length	5m; 7.2m (Optional)		5m; 7.2m (Optional)		MCS: 3m; CCS2: 5m
Standby Power	<65W				
Enclosure Rating	IP55, IK10				
Communication to the EV	ISO/IEC 15118 with PnC, DIN 70121				
Software Update	OTA updates via web portal, FTP, FTPS, HTTPS				
Accessibility	Meets ADA requirements for height, reach, and user interface				
Emergency Button	Yes				
Warranty	24 months, warranty extension possible				
User Interface					
Status Indication	Yes				
RFID Protocols	ISO 14443 A/B, ISO/IEC 15693, MIFARE				
Credit Card Readers	Nayax Onyx; Payter P66/Apollo; PAX IM30; Worldline Valina; Castles S1U2				
Payment Terminal	AutoCharge, Plug & Charge, APP, RFID card, QR code, Credit Card (Optional)				
Communication Protocols	OCPP 1.6J (OCPP 2.0.1 Optional)				
Cable Management System	Yes				
Environmental Specifications					
Humidity	<95 % RH, non-condensing				
Operating Altitude	2000m				
Operating Temperature Range	-35°C to 55°C				
Storage Temperature Range	-40°C to 70°C				
Noise	≤55dBA" (Silent Mode)				
EMC Compliance	EMC Class A				
Compliance and Safety	IEC 61851-1, IEC 61851-21-2, IEC 61000, Eichrecht				
Certification	CE; UKCA; TR25; ETSI EN 303645; TÜV				

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MaxiCharger DS600L Liquid-cooled System

MaxiModule

97.3%

Efficiency

89.2 W/in³

Power density

15 Year

Lifespan



Liquid-cooled Charging Module



MaxiModule LCM60		MaxiModule LCM120
Basic Specifications		
Model	60kW Module (ME0060B1G)	120kW Module (ME0120B1G)
Dimensions (W × D × H)	538mm × 480mm × 57mm (excluding terminals and handle)	538mm × 480mm × 85mm (excluding terminals and handle)
Weight	< 28 kg	< 44 kg
Efficiency	Peak efficiency ≥ 98.4%	Peak efficiency ≥ 98.9%
Cooling Method	Liquid cooled	Liquid cooled
Standby Power Consumption	< 10W	< 10W
Standby Passive Power	-	< 10Var
Output Discharge Time	≤ 1s (with discharge circuit)	-
Protection Rating	IP66	IP66
Input Specifications		
AC Input Voltage	-	260 - 528Vac
AC Input Mode	-	3W+PE
DC Input Voltage	820Vdc ± 2%	-
Input Current	≤ 77.5A	≤208A
Input Frequency	-	40 - 70 Hz, Rated: 50 Hz
Power Factor	-	≥ 0.98 (Load ≥ 50%)
Harmonic Distortion (THDi)	-	≤ 3% (Load ≥ 50%)
Output Specifications		
Output Voltage	200 - 1000 Vdc ± 0.5%	820 Vdc
Output Current	0 - 200A	-
Constant Power Voltage	300 - 1000 Vdc	-
Output Power	MAX. 60kW (300 - 1000Vdc Linear Derating)	MAX. 125KW, Rated. 120KW
Steady-State Voltage Accuracy	≤ 0.5%	-
Steady-State Current Accuracy	≤ ±1%	-
Voltage Ripple	Voltage Ripple (Peak-Peak) ≤ ±5V	Voltage Ripple (Peak-Peak) ≤ 2%
Current Ripple	≤ 1.5A@frequency<10Hz; ≤ 6A@frequency<5000Hz; ≤ 9A@frequency<150kHz	-
Environmental Specifications		
Operating Temperature	-35°C to +85°C (Power derating @55°C)	
Storage Temperature	-40°C to +75°C	
Relative Humidity	5% to 95% (non-condensing)	
MTBF (Mean Time Between Failures)	>500,000H	
Noise	< 50 dB	
Standards Compliance		
Safety & Regulatory Standards	EN IEC 61851-1, EN IEC 61851-23	
EMC	EN IEC 61851-21-2	
VPFC	-	VDE-4100, VDE-4110



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