

**TECOO**  
Electronic Manufacture

# PRODUCT MANUAL





# Portable EV Charger

- Type2 Portable EV Charger
- GB/T Portable EV Charger



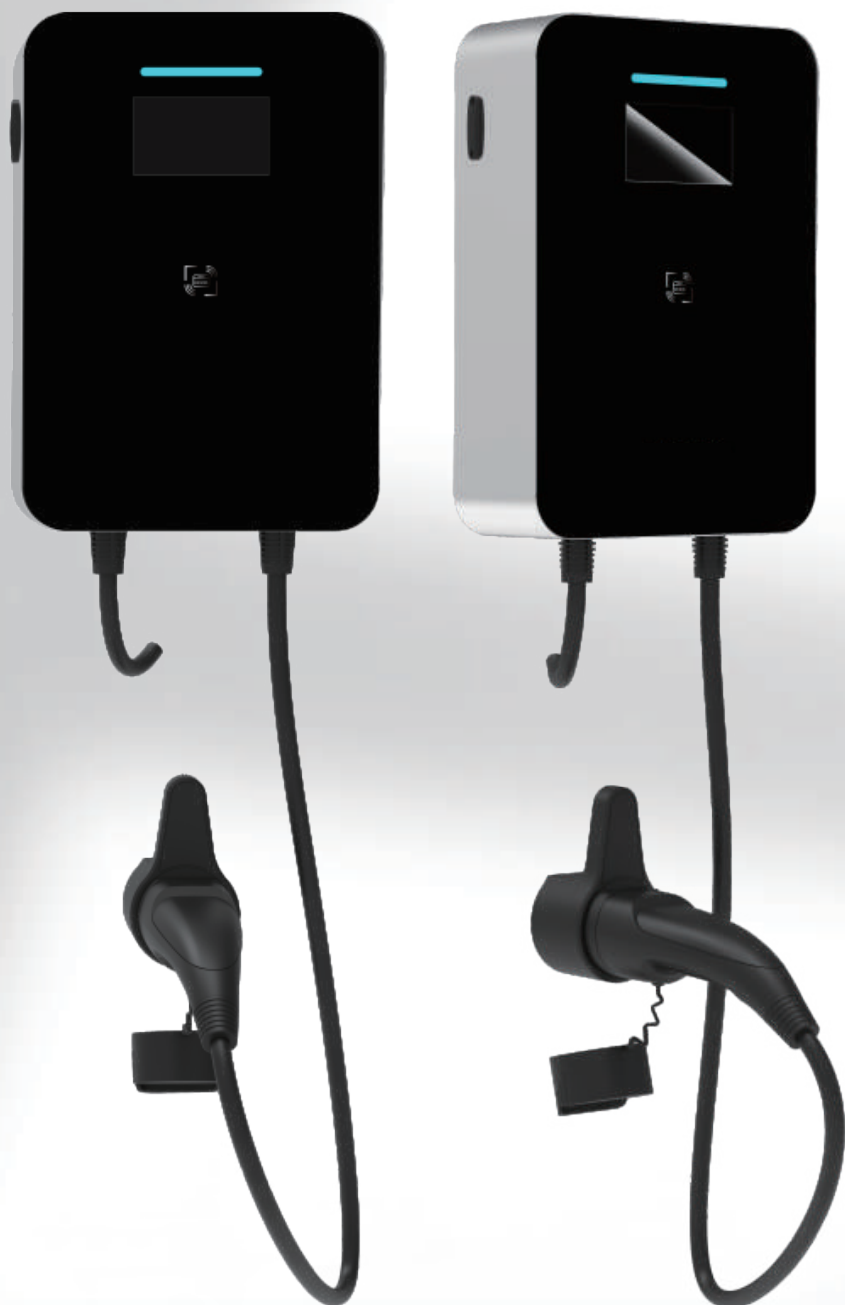
**Charging head optional**



Data				
Model	MDAC116ENF	MDAC116ENF-P	MDAC132ENF	MDAC132ENF-P
Working voltage	AC230V		AC230V	
Frequency	50HZ		50HZ	
Rated power	3.5kW		7kW	
Power supply circuit	1-phase		1-phase	
Rated Maximum Power	16A		32A	
IP Degree	IP65		IP65	
Working Environment				
Environment temperature	-25°C ~ +50°C			
Relative humidity	0-95% non-condensing			
Maximum altitude	<2000m			
Cooling	Natural air cooling			
Function				
Bluetooth	No			
APP	No			
2.8inch LED	NO	YES	NO	YES
RCD	TypeA			
LED Indicator light	Yes			
Intelligent power adjustment	Yes			
Fuselage size	200*90*55mm		230*110*60mm	
<b>Plug Can Be Customized</b>				

# EV CHARGER WALLBOX

- Type2 EV Charger
- GB/T EV Charger



### Charging head optional



Type 2



GB/T

### Data

Model	MDAC132EN	MDAC316EN	MDAC332EN
Working voltage	AC230V	AC400V(L1+L2+L3+N+PE)	AC400V(L1+L2+L3+N+PE)
Frequency	50HZ	50HZ	50HZ
Rated power	7kW	11kW	22kW
Power supply circuit	1-phase	3-phase	3-phase
Rated Maximum Power	32A	16A	32A
IP Degree	IP65	IP65	IP65
Cable length		5m	

### Working Environment

Working temperature	-30°C — + 50°C
Working humidity	5%~ 95%HR
Maximum altitude	<2000m
The cooling way	Natural air cooling

### Product performance

Over voltage protection, Undervoltage protection, Overload protection, Leakage Protection, Ground protection, Over temperature protection, Lightning protection, Short circuit protection

Safety standards	GB \ T20234,GB \ T18487,NB \ T33008,NB \ T33002 / IEC61851-21-2:2021
Applicable environment	Home/Indoor/Outdoor

### function

communication iprotocol.	OCPP1.6
Networking method	4G or Ethernet optional

### Physical size

Fuselage size	355 * 250 * 93mm
Installation mode	Column mounted (floor mounted) or wall mounted Install optional



# EV CHARGER WALLBOX

- Type2 EV Charger
- GB/T EV Charger



**Charging head optional**



Type 2



GB/T

Product Name	Product Specifications	Operation version (MDAC 7-22kWP)		
		MDAC 132EN K	MDAC 316EN K	MDAC 332EN K
Charging Equipment	Model	MDAC 132EN K	MDAC 316EN K	MDAC 332EN K
	Input voltage	AC230V	AC400V(L1+L2+L3+N+PE)	AC400V(L1+L2+L3+N+PE)
	Input frequency	50HZ	50HZ	50HZ
	Power	7kW	11kW	22kW
	Phase	1-phase	3-phase	3-phase
	Rated Maximum Power	32A	16A	32A
	Specification size mm (L×W×H)	345×195×95.5mm		
	Cable length	5m		
	output method	wring method C		
	Feature Design	Safety standards	GB \ T20234,GB \ T18487,NB \ T33008,NB \ T33002 / IEC61851-21-2:2021	
Safety Design	HMI	4.3 inch screen/LED indicator		
	Protect design	Overvoltage protection, undervoltage protection, short circuit protection, overload protection, grounding protection, overtemperature protection, low temperature protection, lightning protection and leakage protection		
Environmental Design	Applicable environment	Home/Indoor/Outdoor		
	Operating temperature	-20°C+55°C		
	Working humidity	5% ~ 95% no condensation		
	Maximum altitude	<2000m		
	Protection level	IP54		
	cooling method	natural cooling		
	MTBF	30,000 hours		
	special protection	Anti-UV design		
function	communication iprotocol.	OCPP1.6		
	Networking method	4G or Ethernet optional		

# EV CHARGER WALLBOX

- Type2 EV Charger
- GB/T EV Charger



**Charging head optional**



Product Name	Product Specifications	Operation version(MDAC 7kW)
Charging Equipment	Installation method	Column type, wall-mounted type
	Wiring method	top in , bottom out
	Input voltage	AC230V+ 10%
	Input frequency	50Hz
	Power	7kW
	Output current	AC230V±10%
	Standby power consumption	<6W
	Specification size mm (L×W×H)	321×179.7×106.2mm
	Cable length	5m
Feature Design	Safety standards	GB \ T20234,GB \ T18487,NB \ T33008,NB \ T33002 / IEC61851-21-2:2021
Safety Design	HMI	LED indicator
	Protect design	Overvoltage protection, undervoltage protection, short circuit protection, overload protection, grounding protection, overtemperature protection, low temperature protection, lightning protection and leakage protection
Environmental Design	Applicable environment	Home/Indoor/Outdoor
	Operating temperature	-20°C +55°C
	Working humidity	5% ~ 95% no condensation
	Maximum altitude	<2000m
	Protection level	IP54
	cooling method	natural cooling
	MTBF	30,000 hours
	special protection	Anti-UV design
function	communication iprotocol.	OCPP1.6
	Networking method	4G or Ethernet optional



# SMART HOME EV CHARGING STATION

• Sheet Metal/Operations/Home Edition



**Charging head optional**



Type 2



GB/T

Product Name	Product Specifications	Operation version, normal version (MDAC3-7kWp)	Simple Version (Home Version MDAC3-7kWS)
Charging Equipment	Installation method	Column type, wall-mounted type	
	route	down in down out	
	Input voltage	AC220V±10%, single-phase three-wire system (L+N+PE)	
	input frequency	50±1Hz	
	The output voltage	Single-phase AC220V	
	Rated current	32A	
	output method	Wiring method C	
	Specification size mm (L×W×H)	390×260×125mm	
	cable length	5m	
	Feature Design	HMI	4.3-inch display/indicator
Measurement method		Have	
charging method		Swipe card to charge/scan code to charge	Plug and charge/swipe card charging
charging settings		none	
payment method		Credit card payment/scan code payment	none
way of communication		Ethernet/4G network, ordinary version can not be connected to the Internet	485 (reserved)
Safety Design	Protective function	Overvoltage protection, undervoltage alarm, overcurrent protection, short circuit protection, Over temperature protection, lightning protection, emergency stop protection, leakage protection, Relay adhesion detection, CP detection	
	security function	Withstand voltage: AC 2kV, insulation resistance: > 10MΩ	
	safety standard	GB/T20234-2015、GB/T18487-2015、GB/T27930-2015、NB/T33008-2018、NB/T33002-2018	
Environmental Design	Operating temperature	-20°C~+50°C	
	Relative humidity	5%-95% non-condensing cream	
	Storage temperature	-40°C~+70°C	
	working altitude	≤2000m	
	Protection class	IP54	
	noise control	≤60dB	

# EV CHARGING STATION

• Operation Edition/Normal Edition



### Charging head optional



Type 2



GB/T

Product Name	Product Specifications	Operation version, normal version (MDAC3-7kW)	Simple Version (Home Version MDAC3-7kWS)
Charging Equipment	Installation method	Column type, wall-mounted type	
	route	down in down out	
	Input voltage	AC220V±10%, single-phase three-wire system (L+N+PE)	
	input frequency	50±1Hz	
	The output voltage	Single-phase AC220V	
	Rated current	32A	
	output method	Wiring method C	
	Specification size mm (L×W×H)	390×260×125mm	
	cable length	5m	
	Feature Design	HMI	4.3-inch display/indicator
Measurement method		Have	
charging method		Swipe card to charge/scan code to charge	Plug and charge/swipe card charging
charging settings		none	
payment method		Credit card payment/scan code payment	none
way of communication		Ethernet/4G network, ordinary version can not be connected to the Internet	485 (reserved)
Safety Design	Protective function	Overvoltage protection, undervoltage alarm, overcurrent protection, short circuit protection, Over temperature protection, lightning protection, emergency stop protection, leakage protection, Relay adhesion detection, CP detection	
	security function	Withstand voltage: AC 2kV, insulation resistance: > 10MΩ	
	safety standard	GB/T20234-2015、GB/T18487-2015、GB/T27930-2015、NB/T33008-2018、NB/T33002-2018	
Environmental Design	Operating temperature	-20°C~+50°C	
	Relative humidity	5%-95% non-condensing cream	
	Storage temperature	-40°C~+70°C	
	working altitude	≤2000m	
	Protection class	IP54	
	noise control	≤60dB	



# Wallbox Dual EV Charger

- 14kw-double Charging-wall Mounted



Product Name	Product Specifications	14kw-Dual Gun-Wall Mounted(MDAC5)	14kw-dual gun-floor-standing(MDAC5)
	Equipment size	425×300×117(mm) [Plug and charge, swipe card start, 4G operation]	1400×300×150(mm) [Plug and charge, swipe card start, 4G operation]
	Installation method	Floor mounted/Wall mounted	
	route	down line, down line	
	Equipment weight (net weight)	29kg	
	cable length	5M	
	Input voltage	AC220V+20%	
	input frequency	50Hz	
	rated power	14kW	
	Measurement accuracy	Level 1	
	The output voltage	AC220V+20%	
	Output current	32A+32A	
	Standby power consumption	<5W	
Feature Design	HMI	4.3 inch color touch screen/LED indicator	
Safety Design	Safety standards	GB/T20234, GB/T18487, NB/T33008, NB/T33002	
	Protective function	Overvoltage protection, undervoltage protection, short circuit protection, overload protection, Grounding protection, over temperature protection, low temperature protection, lightning protection, Leakage Protection	
Environmental Design	Applicable environment	Home/Commercial/Indoor/Outdoor	
	Operating temperature	-20°C - +55°C	
	Working humidity	5% ~ 95% non-condensing	
	working altitude	< 2000m	
	Protection class	IP54	
	cooling method	Free cooling	
	MTTBF	30,000 hours	
special protection	UV resistant design		



# Wallbox DC Charging Pile Series

- Wall-mounted



### Charging head optional



GB/T

Product Specifications	Contents of Technical Instructions (MDDC1)	
rated power	20kW	30kW
output maximum current	50A	80A
Constant power output voltage range	DC400-750V	DC300-1000V
Dimensions(W×H×D) Without uprights	600×450×210mm	650×550×250mm
Start method	Plug and Charge	
charging mode	Automatic charging, by time, by power, by amount, etc.	
Display method	7-inch touch display	
Network background	Support State Grid, Cloud Quick Charge, Xiaoju, Weijingyun and other cloud platforms	
Host computer communication	Ethernet (standard)/4G (speed-dating)	
Protective function	Short circuit, over temperature, over current, leakage, input over and under voltage, etc.	
charging method	full power charge	
input voltage	AC380V±20%	
input frequency	50Hz±10%Hz	
number of guns	single gun	
gun line length	Standard 5 meters (optional)	
Output voltage range	DC150-750V adjustable	
Output voltage error	≤±0.5%	
Output current error	≤±1%	
Voltage regulation accuracy	≤±0.5%	
Steady flow accuracy	≤±1%	
Harmonic content	≤±5%	
power factor	≥0.99	
efficiency	≥95%	
Electric energy metering	Grade 1.0 meets GB standard	
Insulation resistance	≥20MΩ	
noise	≤60dB	
Protection class	IP54	
Use environment	outdoor or indoor	
cooling method	air cooling	
Operating temperature	-20°C~+50°C	
Storage temperature	-40°C~+70°C	
Relative humidity	5%~95%	
Altitude	≤2000m	
Installation method	Wall Mount/Vertical Mount	

# DC Charging Pile Series

- Floor-Standing



### Charging head optional



Type 2



GB/T

Product Specifications	Contents of Technical Instructions (MDDC)	
rated power	30kW	40kW
number of guns	single and double guns	single and double guns
Single gun output maximum current	63A/80A	80A/125A
Stake line length	Standard 5 meters (optional)	
Constant power output voltage range	DC400~750V (optional)	
Dimensions	1720×550×200mm (W×H×D)	
Display method	7-inch touch display	
Host computer communication	Ethernet/4G (Speed Dating)	
charging mode	Automatic charging, by time, by power, by amount, etc.	
Start method	Swipe IC card, scan QR code (APP, WeChat, etc.)	
Protective function	Short circuit, over temperature, over current, leakage, over and under voltage, etc.	
charging method	Full power charging, AB equalizing charging, wheel charging	
Network background	Support cloud platforms such as State Grid, Cloud Quick Charge, Xiaoju, Weijingyun, etc.	
Input voltage	AC380V±20%	
input frequency	50Hz±10%Hz	
Output voltage range	DC150-750V adjustable	
Output voltage error	≤±0.5%	
Output current error	≤±1%	
Voltage regulation accuracy	≤±0.5%	
Steady flow accuracy	≤±1%	
Harmonic content	≤±5%	
power factor	≥0.99	
efficiency	≥95%	
Electric energy metering	Grade 1.0 meets GB standard	
Insulation resistance	≥100M	
noise	≤60dB	
Protection class	IP54	
Use environment	outdoor or indoor	
cooling method	air cooling	
operating temperature	-20°C~+50°C	
Storage temperature	-40°C~+70°C	
Relative humidity	5%~95%	
Altitude	≤2000m	
Installation method	Floor installation	



# DC Charging Pile Series

- Floor-Standing



**Charging head optional**



Product Specifications	Contents of Technical Instructions (MDDC)	
rated power	60kW	80kW
number of guns	single and double guns	single and double guns
Single gun output maximum current	125A	200A
Stake line length	Standard 5 meters (optional)	
Constant power output voltage range	DC300~1000V (Optional)	DC400~750V (Optional)
Dimensions	1700×750×400mm (W×H×D)	
Display method	7-inch touch display	
Host computer communication	Ethernet/4G (Speed Dating)	
charging mode	Automatic charging, by time, by power, by amount, etc.	
Start method	Swipe IC card, scan QR code (APP, WeChat, etc.)	
Protective function	Short circuit, over temperature, over current, leakage, over and under voltage, etc.	
charging method	Full power charging, AB equalizing charging, wheel charging	
Network background	Support cloud platforms such as State Grid, Cloud Quick Charge, Xiaoju, Weijingyun, etc.	
Input voltage	AC380V±20%	
input frequency	50Hz±10%Hz	
Output voltage range	DC150-750V adjustable	
Output voltage error	≤±0.5%	
Output current error	≤±1%	
Voltage regulation accuracy	≤±0.5%	
Steady flow accuracy	≤±1%	
Harmonic content	≤±5%	
power factor	≥0.99	
efficiency	≥95%	
Electric energy metering	Grade 1.0 meets GB standard	
Insulation resistance	≥100M	
noise	≤60dB	
Protection class	IP54	
Use environment	outdoor or indoor	
cooling method	air cooling	
Operating temperature	-20°C~+50°C	
Storage temperature	-40°C~+70°C	
Relative humidity	5%~95%	
Altitude	≤2000m	
Installation method	Floor installation	

# DC Charging Pile Series

- Floor-Standing



Product Specifications	Contents of Technical Instructions (MDDC)	
rated power	120kW	160kW
Single gun output maximum current	250A	
Double gun output maximum current	150A*2	200A*2
Dimensions	1700×750×550mm(W×H×D)	
payment method	Swipe card, scan QR code, password	
charging method	Automatic charging, by time, by power, by amount, etc.	
Display method	7-inch touch display	
Networking	Ethernet/4G (Speed Dating)	
Network background	Support State Grid, Cloud Quick Charge, Xiaoju, Weijingyun and other cloud platforms	
Protective function	Short circuit, over temperature, over current, leakage, input over and under voltage, etc.	
Input voltage	AC380V±20%	
input frequency	50Hz±10%Hz	
number of guns	double gun	
gun line length	Standard 5 meters (optional)	
Output voltage range	DC150-750V adjustable	
Output voltage error	≤±0.5%	
Output current error	≤±1%	
Voltage regulation accuracy	≤±0.5%	
Steady flow accuracy	≤±1%	
Harmonic content	≤±5%	
power factor	≥0.99	
efficiency	≥95%	
Electric energy metering	Grade 1.0 meets GB standard	
Insulation resistance	≥100MΩ	
noise	≤65dB	
Protection class	IP54	
Use environment	outdoor or indoor	
cooling method	air cooling	
Operating temperature	-20°C~+50°C	
storage temperature	-40°C~+70°C	
Relative humidity	5%~95%	
Altitude	≤2000m	
Installation method	Floor installation	



# DC Charging Pile Series

- Floor-Standing



### Charging head optional



Product Specifications	Contents of Technical Instructions (MDDC)		
	60kW	120kW	160kW
rated power	60kW	120kW	160kW
Single gun output maximum current	125A	250A	
Dimensions	1800*750*550mm(W×H×D)		
payment method	Swipe card, scan QR code, password		
charging method	Automatic charging, by time, by power, by amount, etc.		
Display method	7-inch touch display		
Networking	Ethernet/4G (Speed Dating)		
Network background	Support State Grid, Cloud Quick Charge, Xiaoju, Weijingyun and other cloud platforms		
Protective function	Short circuit, over temperature, over current, leakage, input over and under voltage, etc.		
Input voltage	AC380V±20%		
input frequency	50Hz±10%Hz		
number of guns	double gun		
gun line length	Standard 5 meters (optional)		
Output voltage range	DC 150-750V adjustable		
Output voltage error	≤±0.5%		
Output current error	≤±1%		
Voltage regulation accuracy	≤±0.5%		
Steady flow accuracy	≤±1%		
Harmonic content	≤±5%		
power factor	≥0.99		
efficiency	≥95%		
Electric energy metering	Grade 1.0 meets GB standard		
Insulation resistance	≥100MΩ		
noise	≤65dB		
Protection class	IP54		
Use environment	outdoor or indoor		
cooling method	air cooling		
Operating temperature	-20°C~+50°C		
storage temperature	-40°C~+70°C		
Relative humidity	5%~95%		
Altitude	≤2000m		
Installation method	Floor installation		