

As an integrated DC charging product integrating the functions of charging cabinet, charging pile and distribution system, etc. the intelligent quick charger achieves main functions of man-machine interaction, swiping card, billing, monitoring and communication, etc.

- ◆ Support payment by means of IC card, APP, Alipay, WeChat and UnionPay card, etc
- ◆ High protective class and complete protection functions
- ◆ Wide range of output voltage, applicable to various vehicle models
- ◆ Suitable for independent and decentralized installation with small floor area and without need of special ancillary facilities
- ◆ Double-gun system with the intelligent load distributing function and powerful charging compatibility can charge two electric vehicles and supports multiple charging modes including equalized charging, alternative charging and intelligent charging
- ◆ Protection functions: overcurrent protection, overvoltage protection, overtemperature protection, short-circuit protection, output reverse polarity protection, leakage protection and insulation monitoring protection
- ◆ Display functions: voltage display, current display, battery indicator, state display and SOC display



Integrated DC quick charger (small volume)



Integrated DC quick charger (standard volume)

## Technical indicators

### Integrated DC quick charge (small volume)

Model and specification	EVD20-15/30/45/60		EVD20-20/40/60/80
Power of single module	15KW		20KW
Power	15/30/45/60KW		20/40/60/80KW
Output voltage	DC200-500V	DC300-750V	DC200-750V
Output current	0-120A	0-80A	0-120A
Input voltage	AC380±15%		
Output ripple factor	≤1%		
Stabilized voltage precision	≤±0.5%		
Stabilized current precision	≤±1%		
Working efficiency	≥95.5%		
Number of containable modules	4		
Number of output interfaces	1/2		
Safety protection	Insulation resistance ≥10MΩ, withstand voltage 2500VAC, protective class: IP54		
Cooling mode	Intelligent air cooling		
Communication interfaces	Ethernet communication, 3G, 4G and RS485		
Operating environment	Altitude ≤2000m, ambient temperature -30℃ ~ 65℃, and humidity: 95%		
Reliability	MTBF ≥ 100000Hrs		
Dimensions (W × D × H) mm	700*380*1250		
Weight	80kg		

### Integrated DC quick charge (small volume)

Model and specification	EVD20-60/75/90/105/120/135/150		EVD20-80/100/120/140/160/180/200
Power of single module	15KW		20KW
Power	60/75/90/105/120/135/150KW		80/100/120/140/160/180/200KW
Output voltage	DC200-500V	DC300-750V	DC200-750V
Output current	0-300A	0-200A	0-300A
Input voltage	AC380±15%		
Output ripple factor	≤1%		
Stabilized voltage precision	≤±0.5%		
Stabilized current precision	≤±1%		
Working efficiency	≥95.5%		
Number of containable modules	10		
Number of output interfaces	1/2		
Safety protection	Insulation resistance ≥10MΩ, withstand voltage 2500VAC, protective class: IP54		
Cooling mode	Intelligent air cooling		
Communication interfaces	Ethernet communication, 3G, 4G and RS485		
Operating environment	Altitude ≤2000m, ambient temperature -30℃ ~ 65℃, and humidity: 95%		
Reliability	MTBF ≥ 100000Hrs		
Dimensions (W × D × H) mm	675*870*1515		
Weight	195kg		

## DC Charging Product/Integrated Four-gun Charge

As an integrated DC charging product integrating the functions of charging cabinet, charging pile and distribution system, etc. the intelligent quick charger achieves main functions of man-machine interaction, swiping card, billing, monitoring and communication, etc.

- ◆ Support payment by means of IC card, APP, Alipay, WeChat and UnionPay card, etc
- ◆ High protective class and complete protection functions
- ◆ Wide range of output voltage, applicable to various vehicle models
- ◆ Suitable for independent and decentralized installation with small floor area and without need of special ancillary facilities
- ◆ Protection functions: overcurrent protection, overvoltage protection, overtemperature protection, short-circuit protection, output reverse polarity protection, leakage protection and insulation monitoring protection
- ◆ Display functions: voltage display, current display, battery indicator, state display and SOC display
- ◆ Manual switching between 12V and 24V of auxiliary power supplies
- ◆ One charger with four guns with intelligent distribution of power, any single gun can output at full power, double guns and four guns can output average power



### Technical indicators

#### Integrated four-gun DC quick charger (standard volume)

Model and specification	EVD20-60/75/90/105/120		EVD20-80/100/120/140/160
Power of single module	15KW		20KW
Power	60/75/90/105/120KW		80/100/120/140/160KW
Output voltage	DC200-500V	DC300-750V	DC200-750V
Output current	0-240A	0-160A	0-240A
Input voltage	AC380±15%		
Output ripple factor	≤1%		
Stabilized voltage precision	≤±0.5%		
Stabilized current precision	≤±1%		
Working efficiency	≥95.5%		
Number of containable modules	8		
Number of output interfaces	4		
Safety protection	Insulation resistance ≥10MΩ, withstand voltage 2500VAC, protective class: Ip54		
Cooling mode	Intelligent air cooling		
Communication interfaces	Ethernet communication, 3G, 4G and Rs485		
Operating environment	Altitude ≤2000m, ambient temperature -30°C - 65°C, and humidity: 95%		
Reliability	MTBF ≥100000Hrs		
Dimensions (W×D×H) mm	675*870*1515mm		
Weight	195kg		

## DC Charging Product / Split Charger

The split DC charging product is an intelligent charging system composed of two parts, i.e. DC conversion and DC output control in split type, and two parts make up a complete charger through DC cables to fulfill main functions of man-machine interaction, swiping card, billing, monitoring and communication, etc.

- ◆ Support payment by means of IC card, APP, Alipay, WeChat and UnionPay card, etc
- ◆ High protective class and complete protection functions
- ◆ Wide range of output voltage, applicable to various vehicle models
- ◆ Expandable capacity in the form of combining cabinets
- ◆ Small harmonic components for greening and environmental protection
- ◆ Safe, reliable and unattended
- ◆ The system with the intelligent load distributing function and powerful charging compatibility can charge two electric vehicles and supports multiple charging modes including equalized charging, alternative charging and intelligent charging



### Technical indicators

Model and specification	EVD20-120/160/200		
Power of single module	15KW	20KW	
Number of containable modules	10		
Output voltage	AC380±15%		
Output current	DC200-500V	DC300-750V	DC200-750V
Input voltage	0-300A	0-200A	0-270A
Output ripple factor	≤1%		
Stabilized voltage precision	≤±0.5%		
Stabilized current precision	≤±1%		
Working efficiency	≥95.5%		
Number of containable modules	150KW	200KW	
Number of output interfaces	1-10		
Safety protection	Insulation resistance ≥10MΩ, withstand voltage 2500VAC, protective class: Ip54		
Cooling mode	Intelligent air cooling		
Communication interfaces	Ethernet communication, 3G, 4G and Wifi		
Operating environment	Altitude ≤2000m, ambient temperature -30°C - 65°C, and humidity: 95%		
Reliability	MTBF ≥100000Hrs		
Dimensions (W×D×H) mm	Main cabinet: 600*870*1515mm; terminal: 360*300*1470mm		
Weight	Main cabinet: 180kg; terminal: 64kg		

EVD-15-(500)750-RM/EVD-20-750-RM AC/DC conversion module is a high-efficiency and high-power density AC-DC charging module with the characteristics of perfect input over/undervoltage protection, output reverse polarity protection, output overvoltage protection, output overcurrent protection, short-circuit protection and overtemperature protection, etc.



- ◆ Range of operating voltage: 323Vac~437Vac
- ◆ High protective class and complete protection functions
- ◆ Wide output voltage applicable to various vehicle models
- ◆ Working efficiency  $\geq 96.4\%$
- ◆ Small harmonic components for greening and environmental protection
- ◆ Weight: < 11kg
- ◆ Support hot swappable
- ◆ Range of operating temperature:  $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$



15kW DC charging module



20kW DC charging module

## Technical indicators

### 15kW constant power DC charging module

Model	EVD15H-750-RM
Input voltage (Vac)	380
Variable range of input voltage (Vac)	323~437
Input power factor	>0.99
Harmonic components in input current	< $\pm 5\%$ (50%~100%)
Variation range of input frequency (Hz)	45~65
Output rated voltage (V)	750
Variable range of output voltage (V)	200~750
Output rated current (A)	20
Variable range of output current (A)	0~37.5
Output stabilized voltage precision	< $\pm 0.5\%$
Output stabilized current precision	$\leq 1\%$ (20%~100%Ir)
Sharing current	< $\pm 5\%$ Ir
Output ripple	Peak factor < 1%, RMS factor < 0.5%
Standby power consumption (W)	< 15
Communication bus protocol	CAN2.0
Maximum efficiency	95.80%
Audio-frequency noise (dB)	55
Dimensions (W × D × H) mm	531*240*87mm

## Technical indicators

### 15kW DC charging module

Model	EVD-15-500-RM	EVD-15-750-RM
Input voltage	AC380 $\pm 15\%$	
Output current	DC200 ~ 500V	DC300 ~ 750V
Output ripple factor	0 ~ 33.3A (rated value 30A)	0 ~ 22.5A (rated value 20A)
Output ripple factor	$\leq 0.1\%$	
Stabilized voltage precision	$\leq \pm 0.5\%$	
Stabilized current precision	$\leq \pm 1\%$	
Working efficiency	$\geq 96.4\%$	
Protection functions	Input undervoltage protection, output reverse polarity protection, output overcurrent protection, output short-circuit protection and anti-reverse filling protection	
Standby power consumption	$\leq 14\text{W}$	
Current limiting function	Yes	
Cooling mode	Intelligent air cooling	
Communication interfaces	CAN	
Operating environment	Altitude $\leq 4000\text{m}$ , ambient temperature $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ , and humidity: 95%	
Reliability	MTBF $\geq 500000\text{Hrs}$	
Dimensions (W × D × H) mm	481*240*87mm	
Weight	11kg	

### 20kW DC charging module

Model	EVD-20-750-RM
Input voltage	AC380 $\pm 15\%$
Output voltage	DC200 ~ 750V
Output current	0 ~ 30A (rated value 27A)
Output ripple factor	$\leq 0.1\%$
Stabilized voltage precision	$\leq \pm 0.5\%$
Stabilized current precision	$\leq \pm 1\%$
Working efficiency	$\geq 96.4\%$
Protection functions	Input undervoltage protection, output reverse polarity protection, output overcurrent protection, output short-circuit protection and anti-reverse filling protection
Standby power consumption	$\leq 14\text{W}$
Current limiting function	Yes
Cooling mode	Intelligent air cooling
Communication interfaces	CAN
Operating environment	Altitude $\leq 4000\text{m}$ , ambient temperature $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ , and humidity: 95%
Reliability	MTBF $\geq 500000\text{Hrs}$
Dimensions (W × D × H) mm	481*240*87mm
Weight	11kg