

V2G Split type public charging device

According to energy storage power station, interactive smart grid and optimize the use of energy resources need to develop a new generation of power products. In energy storage, photovoltaic (pv), micro network system as linked to public power grid between ac to dc, dc to ac bidirectional converter device. Split type charger is made up by two-way charge rectifier cabinet and outdoor USES modular design, a single rectifier and inverter module 50 kw. Applicable to the operation of the charging stations, private car parking uses.

Split type public charger I series: Output voltage range DC250V ~ 750V settable, the maximum output power is 50KW.

Split type public charger II series: Output voltage range DC250V ~ 750V settable, the maximum output power is 150KW.



Product feature:

- Consisting by the IGBT converter device, ac/dc filter device, soft starter, monitor, isolation transformers, part of the protection device.
- With power grid peak regulation, improve the quality of power grid, and new energy access functions.

Model	EVDC-50KW-V	EVDC-150KW-V
Input		
Input voltage(V)	323~475 (three phases)	
Input current(A)	≤300	
Input frequency(Hz)	45~65	
Efficiency	≥93%	
Input PF	≥0.99	
Input THD	≤5%)	
DC output		
Output voltage range	700Vdc series: 250~700V	700Vdc series: 250~700V
Output rated current	80	240
Max output current	85	250
Soft start time(S)	3~8	

Model	EVDC-50KW-V	EVDC-150KW-V
Input		
constant current range	10%~100%	
Voltage precision	$\leq \pm 0.5\%$	
Current precision	$\leq \pm 0.5\%$	
Ripple factor	$\leq 1\%$	
Current sharing unbalance degree	$\leq \pm 5\%$, (50%~100%rated load)	
noise(dB)	<65	
Inverter output		
Output voltage range (V)	(three phases) 400V $\pm 15\%$	
Max efficiency	$\geq 93\%$	
Frequency range	47-51.5Hz	
Power factor	≥ 0.99	
Output THD	$\leq 5\%$	
THI	<3%(rated load)	
Power factor	0.9 (leading) -0.9 (lagging)	
Charging configuration and executive standard		
Charging plug number	/	
Charging cable length(m)	/	
Communication protocol executive standard	GB/T 27930-2011, NB/T 33003-2010	
Charger executive standard	NB/T 33001-2010, NB/T 33008.1-2013	
Environmental parameter		
Operating temperature(°C)	-20~+50	
Storage temperature(°C)	-40~+80	
Relative humidity	$\leq 95\%$	
Atmospheric pressure(kPa)	70~106	
Mechanical parameter		
Dimensions (H*W*D) (mm)	2000*600*600	2000*1200*800
weight(kg)	≤ 350	≤ 1000
IP degree	IP31	