

PWM Hydrogen Production Power Supply

AC/DC rectifier

IGBT rectifier power supply utilizes PWM fully controlled type power device and PWM control technology to convert power from AC to DC for the electrolyzer, which is suitable for the scenario of large-scale grid coupling hydrogen production.



Flexible

THDi < 3%, PF > 0.99, Q > 40%, more friendly to grid
Dynamic response time < 100ms, more friendly to RE



Efficient

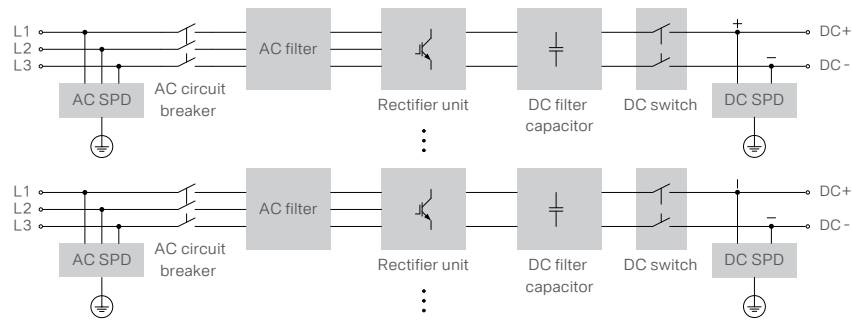
Conversion efficiency > 97.5%



Reliable

Intelligent air/liquid cooling, IP65
Modular design

Topological Block Diagram



Product parameters

Product model	SHR5700	SHR5540
Input （ AC ）		
Rated grid voltage	530V	500V
Grid voltage range	477~583V	450~550V
Maximum input current	4*1765A	2*3640A
Rated grid frequency	50Hz	
Grid frequency range	45 Hz ~55Hz	
Total current distortion rate	<3% （ at maximum power ）	
Power factor	>0.99	
Output （ DC ）		
Maximum output power	5700kW	5540kW
Maximum output voltage	820V	780V
Maximum output current	4*2200A	2*6000A
Operating voltage range	0~820V	0~780V
Output current accuracy	≤0.50% maximum output current	
Dynamic response time	<0.1s	
Output control mode	Voltage control, current control, power control	
Protection		
Fault interlock protection	Yes	
AC insulation test	Yes	
Other functions		
Reactive power compensation function	Yes	
Automatic recognition of AC phase sequence	Yes	
General parameters		
Protection grade	IP65	IP54
Cooling	Temperature controlled forced air cooling	Liquid cooling
Operating temperature range	-30℃~+60℃ （ >45℃ derating ）	-30℃~+45℃
Compliance	IEC 62477-1:2012+A1:2016/EN, IEC 61000-6-2:2019/EN, IEC 61000-6-4:2019, IEC 61000-6-2:2018, IEC 61000-6-4:2018	