

PWM Hydrogen Production Power Supply

DC/DC converter

IGBT DC conversion power supply utilizes PWM fully controlled type power device and PWM control technology to convert the unstable wind and PV energy to DC required by the electrolyzer, which is suitable for wind and PV off-grid direct hydrogen production scenario.



Flexible

Dynamic response time < 100ms, more friendly to RE



Efficient

Patent topology & MPPT function

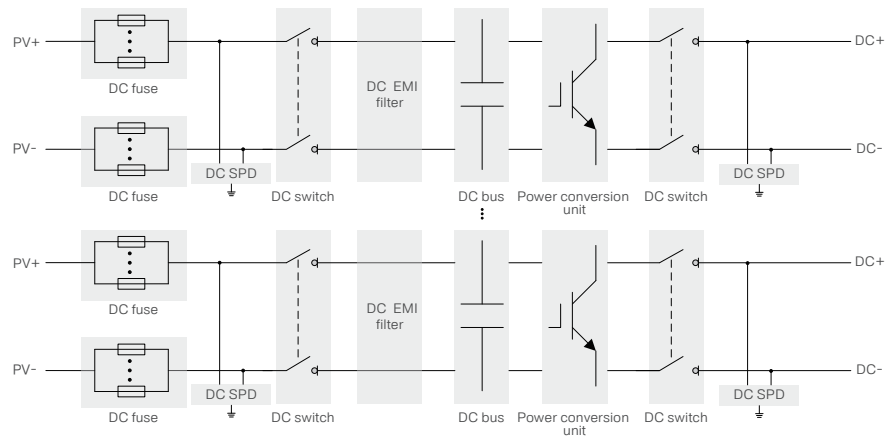


Reliable

Intelligent air/liquid cooling, IP65

Modular design

Topological Block Diagram



Product parameters

Product model	SHD1755	SHD5265
Input (DC)		
Maximum input voltage	1500V	1500V
Minimum input voltage	850V	850V
Full load MPPT voltage range	850~1300V	850~1300V
MPPT number	1	3
Maximum input current	2117A	3*2117A
Output (DC)		
Maximum output power	1755kW	5265kW
Maximum output voltage	820V	820V
Maximum output current	2700A	3×2700A
Operating voltage range	0~820V	0~820V
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	
Input/output overcurrent protection	Yes	
General parameters		
Protection grade	IP20	
Cooling	Liquid cooling	
Operating temperature range	-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	