

SP120HCPV2 converter

Technical specifications

version: V1.2



1. Product introduction

2. The third generation semiconductor is adopted, which is small in size and high in efficiency. Air duct isolation, good environmental adaptability, main photovoltaic power generation, MPPT function, 2 MPPT inputs.

3. Main topology

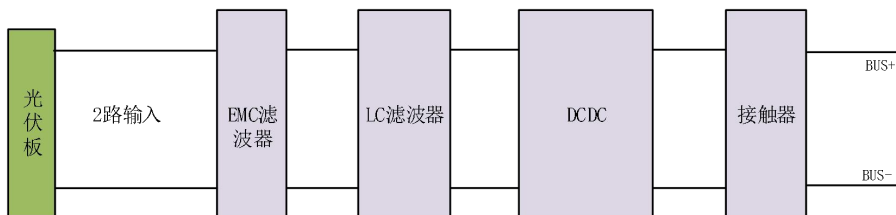


figure 1

1、 Product model and size

SP120HCPV2The dimensions are shown in the figure. (unit: mm) :

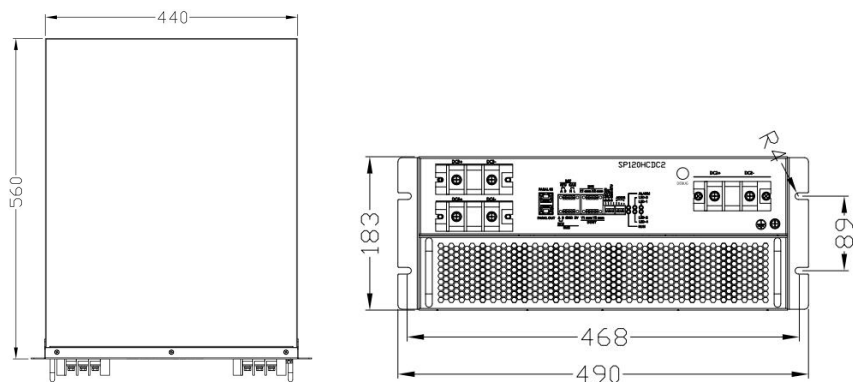


figure 2

2、Specifications and parameters

1) Parameters

parameters	SP120HCPV2
PV Parameters	
Rated power	120kW
PV Open circuit voltage range	200V-900V
MPPT voltage range	200V-850V
Rated voltage	600V
Starting voltage	250V
PV Input number	2
Maximum PV current	100A+100A
Short circuit current	120A+120A
High voltage side parameter	
Voltage range	500V-950V
Rated voltage	680V
Maximum current	180A
System parameter	
Communication port	EMS: RS485 Battery: CAN or RS485
DIDO	DI: 2 paths, DO: 2 paths
Maximum efficiency	99.3%
Installation mode	Insert frame
Wastage	bide one's time<15W, operate without load<100W
Weight	29KG
Measure	W * H * D: 440*183*560mm
Protect	IP5X (Core control part)
Temperature range	-30~60℃
Humidity range	5%~95%
Cooling mode	Intelligent forced air cooling
Noise	50dB
Altitude	4000m(>2000m derate)
Protect	OTP、OCP、OVP、SCP
Authentication	CE, IEC62477, IEC62019, IEC6100
Soft-start circuitry	Yes

2) Power derating curve

3) SP120HCPV2/Power derating curve (PV voltage):

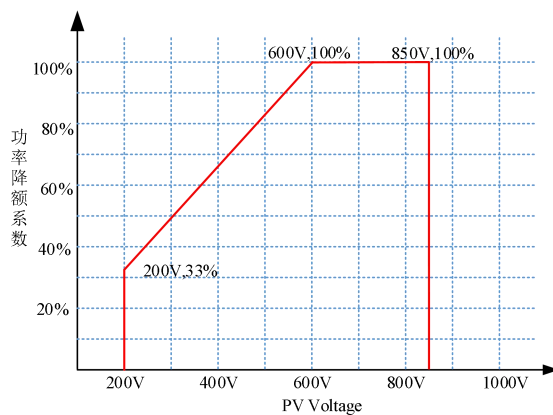


figure 3

SP120HCPV2/Power derating curve (DC side voltage):

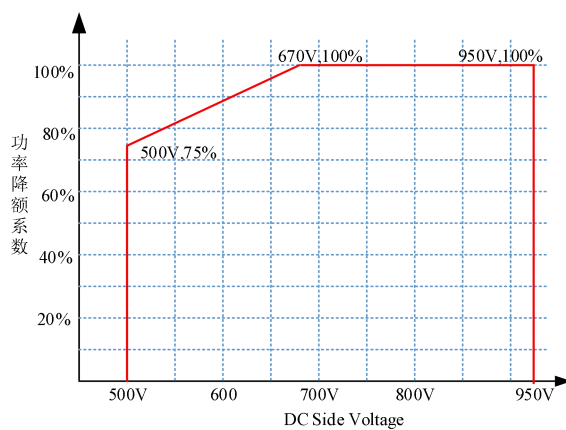


figure 4

4) Temperature derating curve

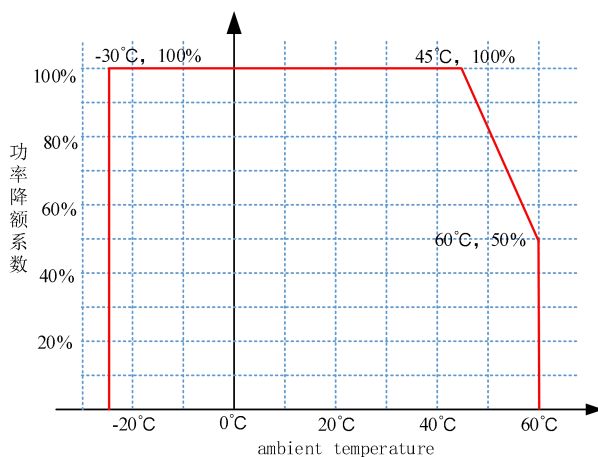


figure 5