

SUN2000-215KTL-H3

Output Characteristics Curve

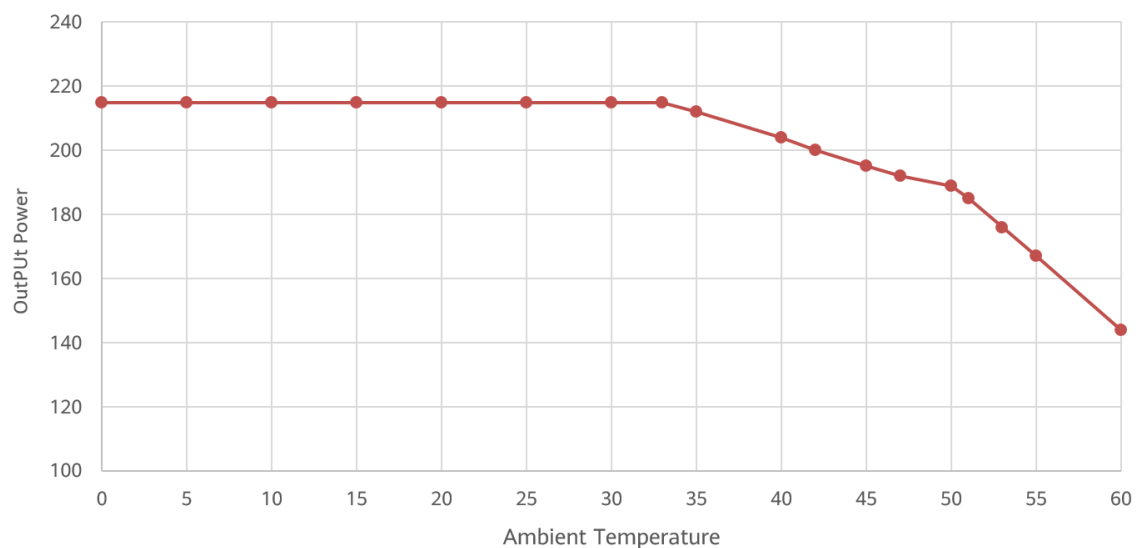


Huawei Technologies Co., Ltd.

Version	Created by	Date	Remarks
01	Huawei	03/24/2021	First release

Power De-rating Curve VS. Ambient Temperature

Power De-rating Curve VS. Ambient Temperature of SUN2000-215KTL-H3:

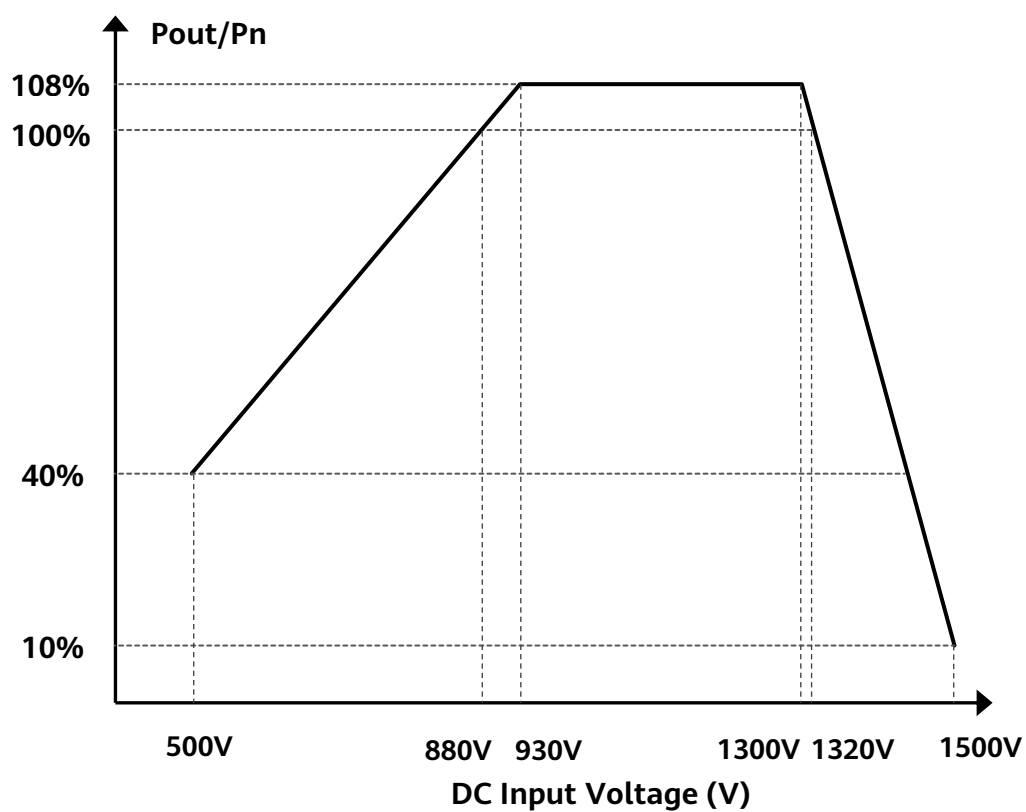


Grid Voltage: 800Vac, PF=1, output power under specific DC working voltage

Model	-25°C	25°C	30°C	33°C	35°C	40°C	42°C
SUN2000-215KTL-H3	215 kVA	215 kVA	215 kVA	215 kVA	212 kVA	204 kVA	200 kVA
	45°C	47°C	50°C	51°C	53°C	55°C	60°C
	195 kVA	192 kVA	189 kVA	185 kVA	176 kVA	167 kVA	144 kVA

Power- DC Input Voltage Curve

Power-DC Input Voltage Curve of SUN2000-215KTL-H3

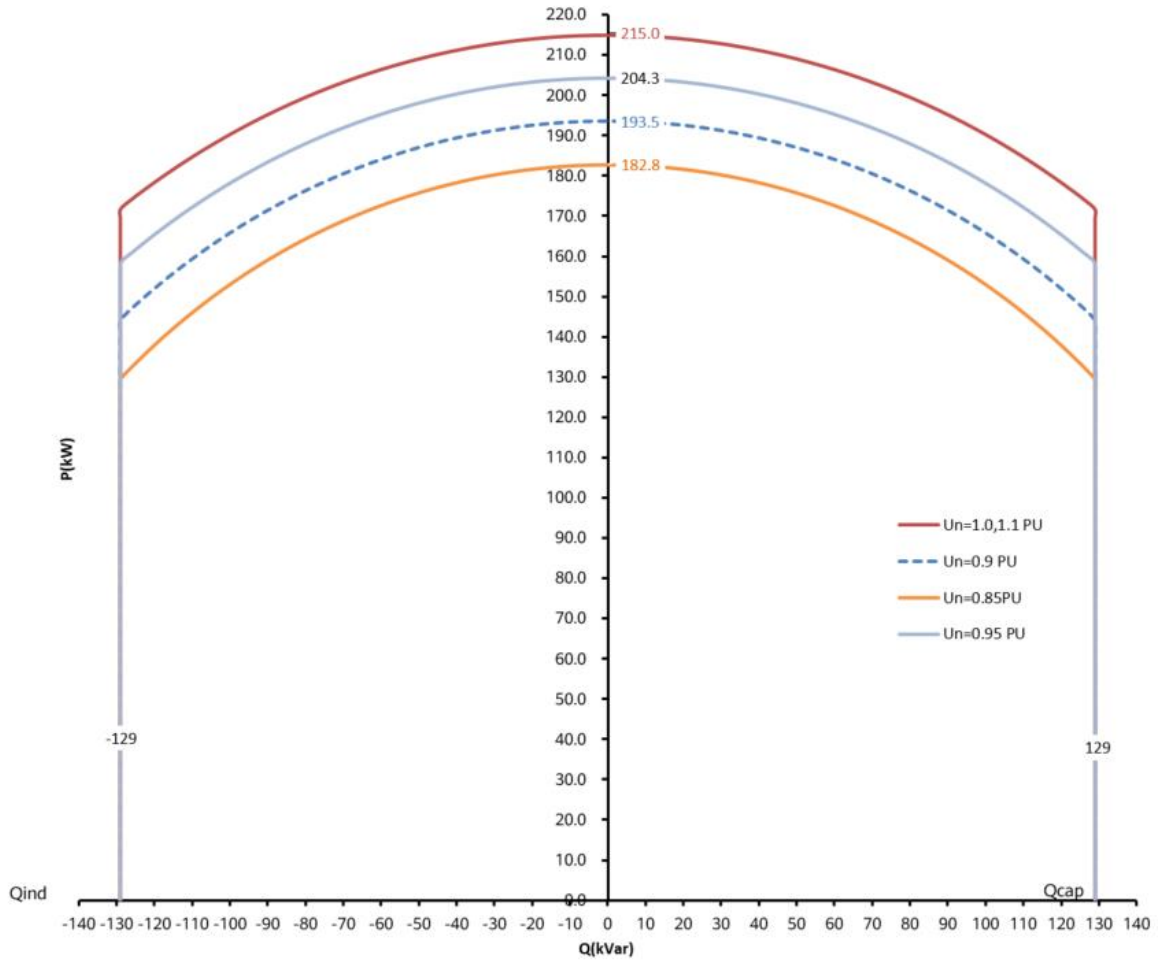


Note:

The power-DC input voltage curve is shaped when PF equals 1.0.

P-Q Curve

P-Q Curve of SUN2000-215KTL-H3



Note:

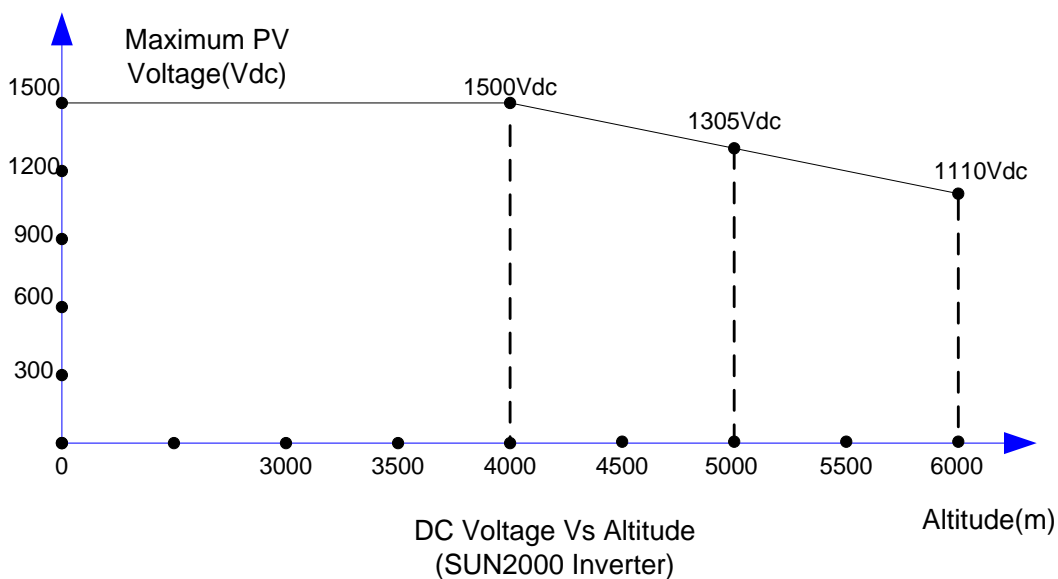
When SUN2000-215KTL-H3 operates at grid voltage 1.0/1.1 p.u., the output power can reach 215 kW (when PF=1) or 215 kVA.

When SUN2000-215KTL-H3 operates at grid voltage 0.9 p.u., the output power can reach 193.5 kW (when PF=1) or 193.5 kVA.

When SUN2000-215KTL-H3 operates at grid voltage 0.85 p.u., the output power can reach 182.8 kW (when PF=1) or 182.8 kVA.

DC Voltage Curve VS. Altitude

DC Voltage Curve of SUN2000-215KTL-H3:



Note:

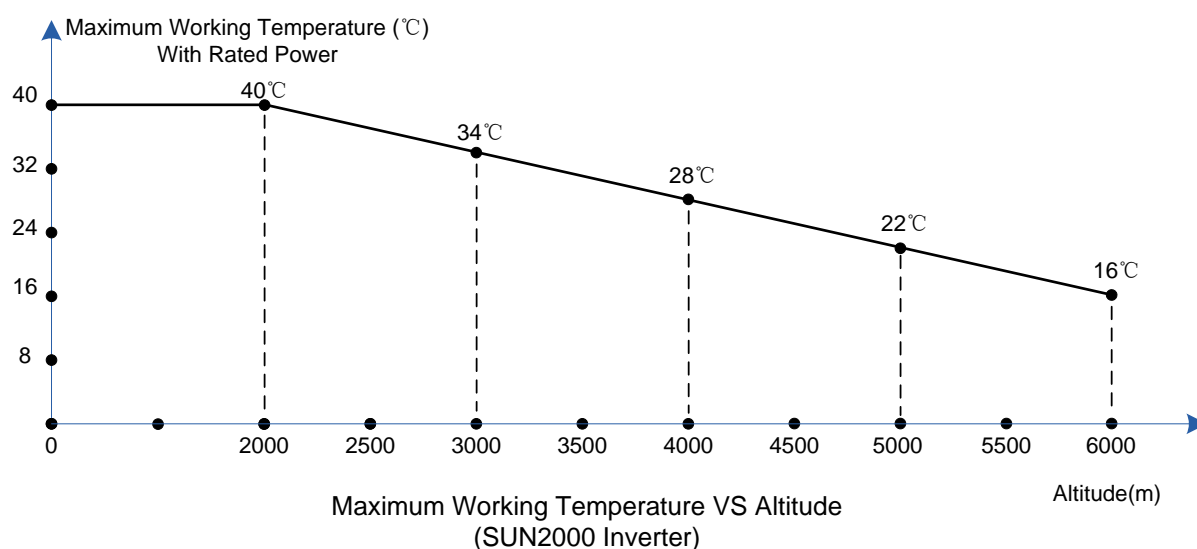
The power of SUN2000 inverter doesn't derate when altitude ≤ 4000 m.

When altitude > 4000 m, DC voltage derating of SUN2000 inverter should be taken into consideration and DC voltage derates in accordance with 19.5 V/100 m.

The rated AC voltage (800 V) of the SUN2000 inverter doesn't derate when altitude ≤ 5000 m.

Maximum Working Temperature VS. Altitude

Maximum Working Temperature VS. Altitude SUN2000-215KTL-H3:



Note:

The maximum working temperature is the ambient temperature below which SUN2000 can output rated power without de-rating.

When the altitude rises, the cooling capacity of the inverters derates. So the internal temperature of inverters in the high altitude area will be higher and severer than that in the low altitude area.

When altitude > 2000 m, the maximum working temperature of SUN2000 should derate by altitude, and it derates in accordance with 6°C/1000 m.