

# SUN2000-105KTL-H1

## Output Characteristics Curve



**Huawei Technologies Co., Ltd.**

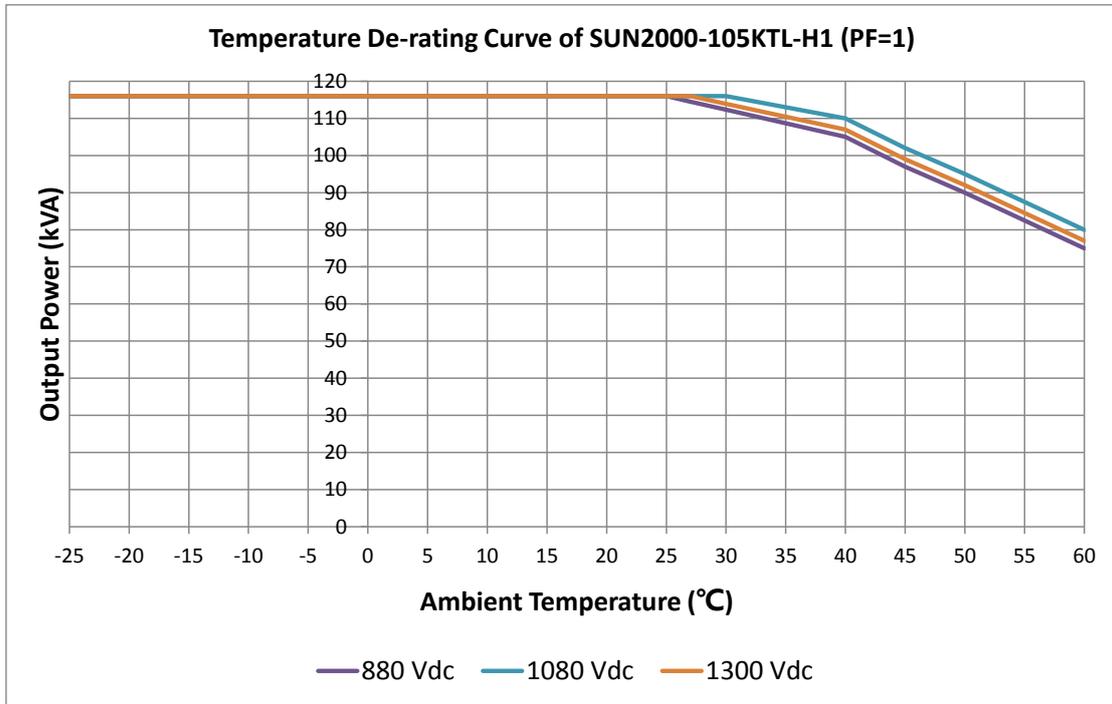
Version	Created by	Date	Remarks
01	Huawei	06/01/2018	
02	Huawei	06/09/2018	Power values @35°C added
03	Huawei	08/07/2018	PQ Curve and Power-DC Input Voltage Curve updated

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# Power De-rating Curve VS. Ambient Temperature

Power De-rating Curve VS. Ambient Temperature of SUN2000-105KTL-H1:



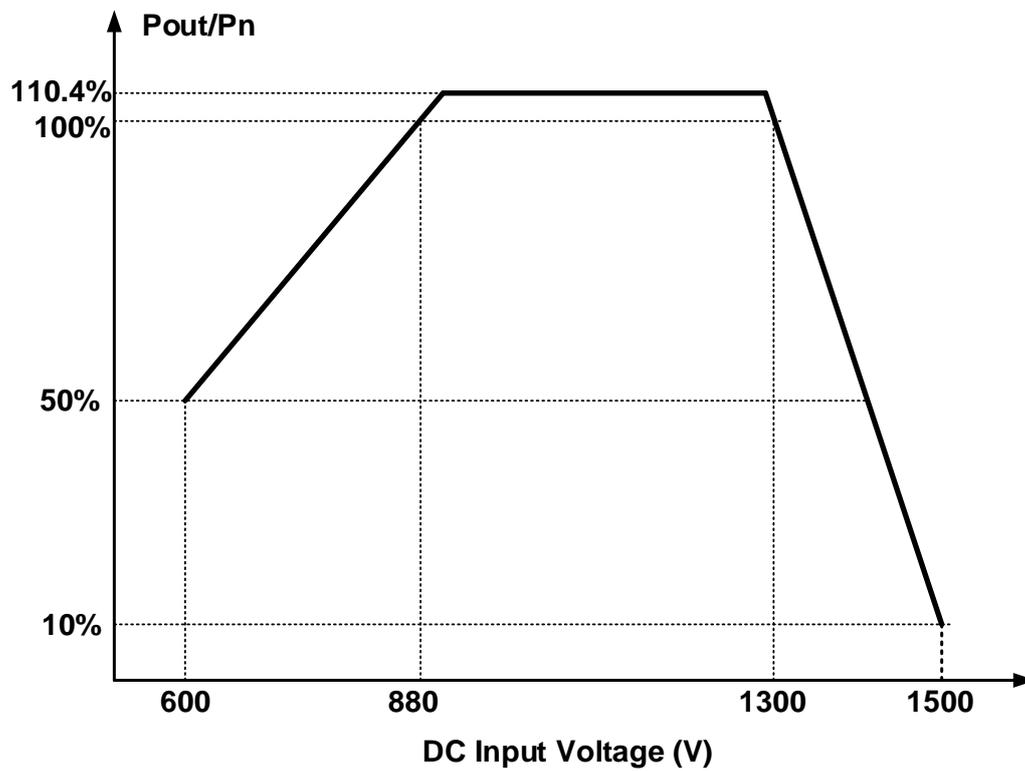
Air speed: 0.5m/s, Grid Voltage: 800Vac, PF=1

Model	MPPT Input	-25°C	25°C	30°C	35°C	40°C	45°C	50°C	60°C
SUN2000-105KTL-H1	880 Vdc	116kVA	116kVA	112.3kVA	108.6kVA	105kVA	97.5kVA	90kVA	75kVA
	1080 Vdc	116kVA	116kVA	116kVA	113kVA	110kVA	102.5kVA	95kVA	80kVA
	1300 Vdc	116kVA	116kVA	113.9kVA	110.4kVA	107kVA	99.5kVA	92kVA	77kVA



## Power-DC Input Voltage Curve

Power-DC Input Voltage Curve of SUN2000-105KTL-H1

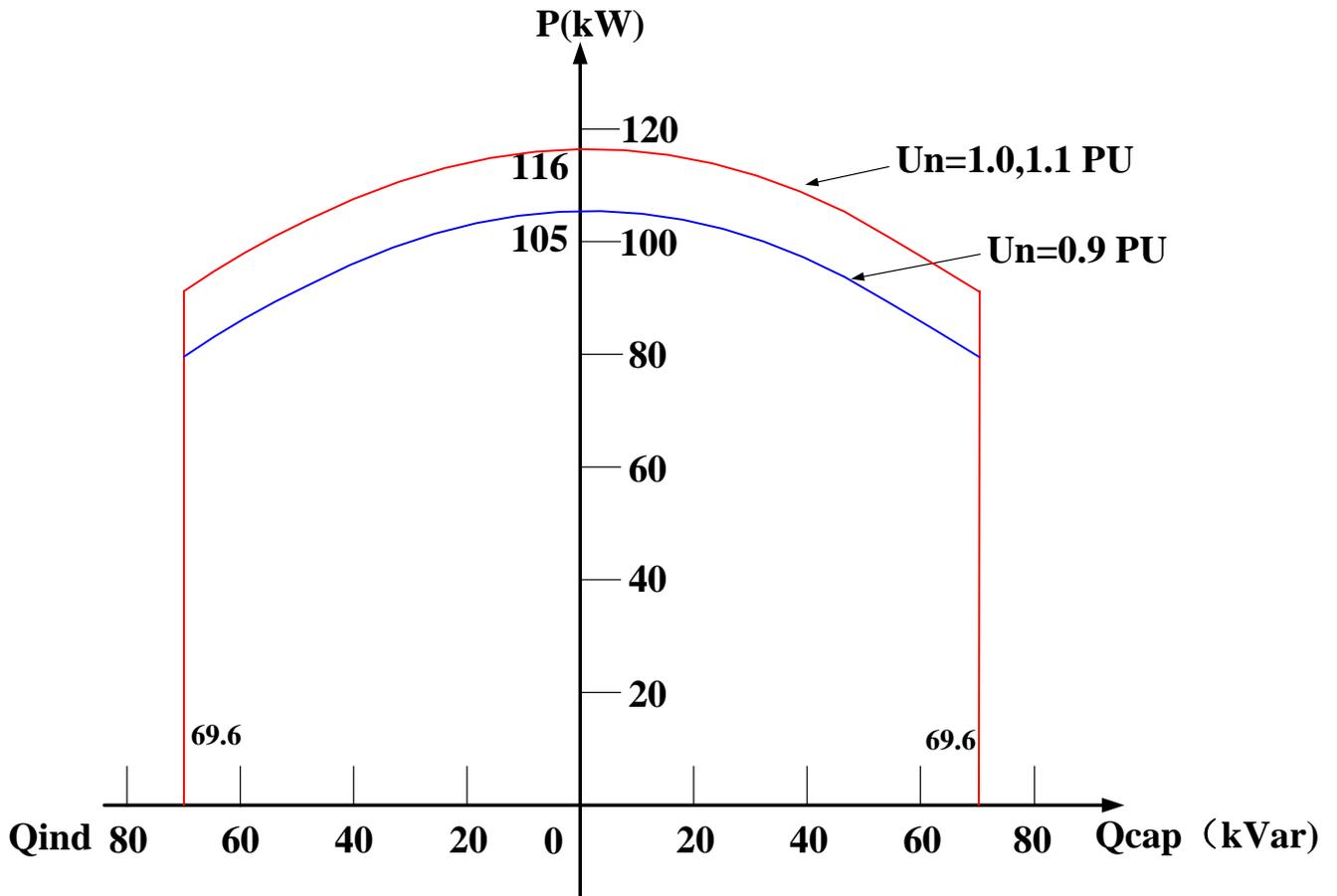


**Note:** The power-DC input voltage curve is shaped when PF equals 1.0.



## PQ Curve

PQ Curve of SUN2000-105KTL-H1



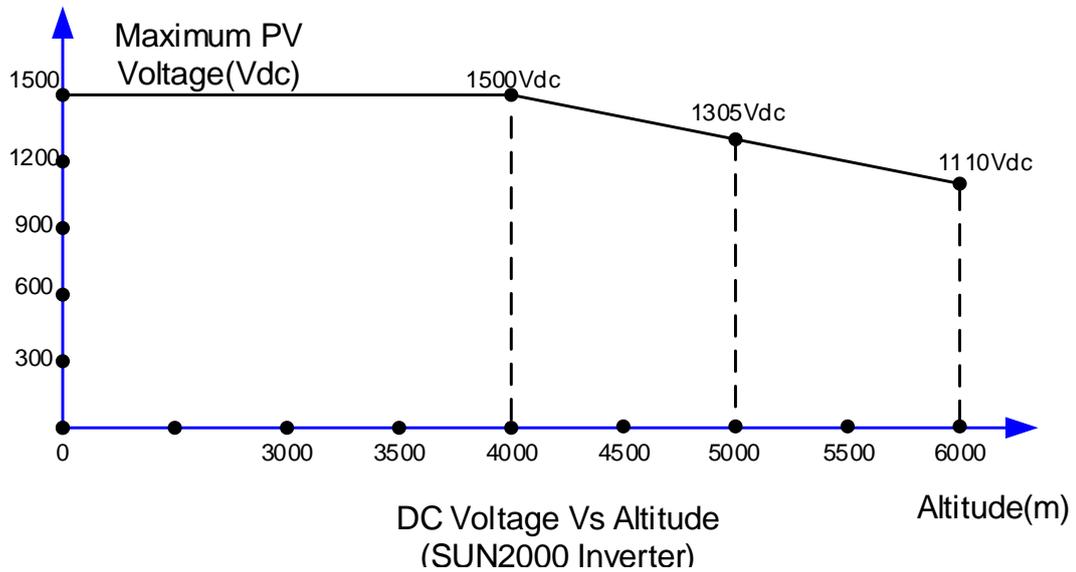
**Note:** When SUN2000-105KTL-H1 operates at grid voltage 1.0/1.1 p.u., the output power can reach 116kW (when PF=1) or 116kVA by default setting.

When SUN2000-105KTL-H1 operates at grid voltage 0.9 p.u., the output power can reach 104.4kW (when PF=1) or 104.4kVA.



## DC Voltage Curve Vs Altitude

DC Voltage Curve of SUN2000-105KTL-H1:



**Note:**

The power of SUN2000 inverter doesn't derate when altitude  $\leq 4000$ m.

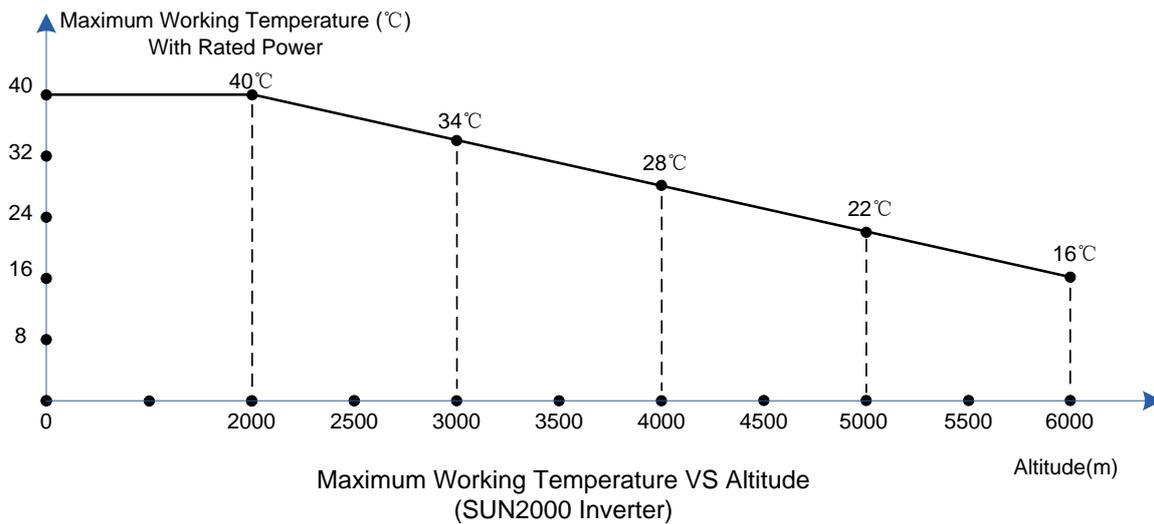
When altitude  $> 4000$  m, DC voltage derating of SUN2000 inverter should be taken into consideration and DC voltage derates in accordance with 19.5V/100m.

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



## Maximum Working Temperature Vs Altitude

Maximum Working Temperature Vs Altitude SUN2000-105KTL-H1:



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