



SUN2000-100KTL-M1 Output Characteristics Curve



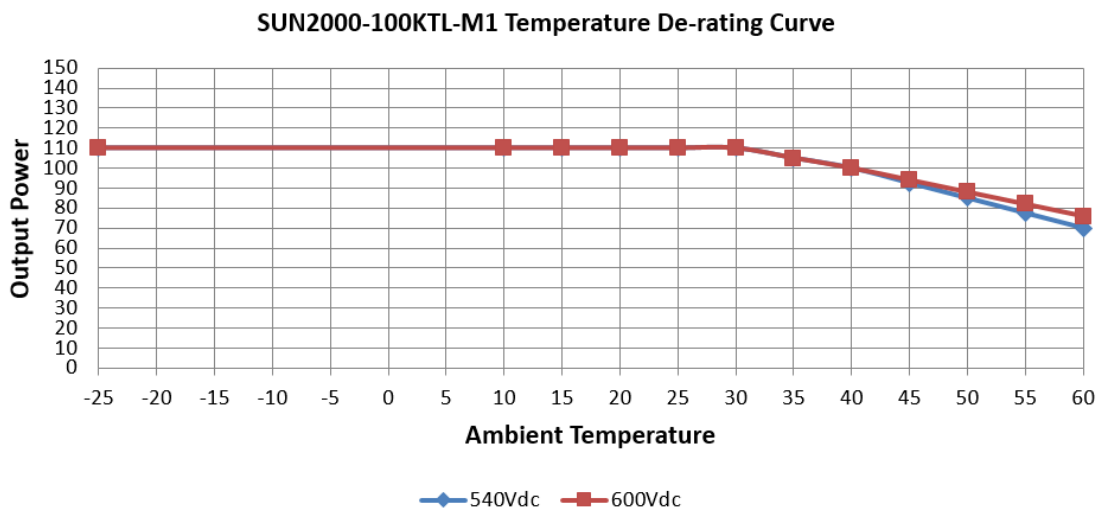
Huawei Technologies Co., Ltd.

Version	Created by	Date	Remarks
01	Huawei	10/08/2019	



Power De-rating Curve VS. Ambient Temperature

Power De-rating Curve VS. Ambient Temperature of SUN2000-100KTL-M1:



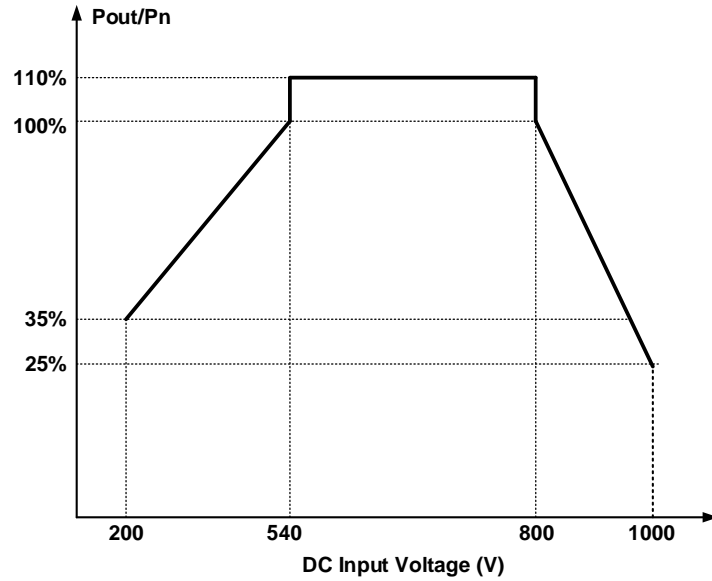
Grid Voltage: 380/400Vac, PF=1

Model	MPPT Input	-25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
SUN2000-100KTL-M1	540 Vdc	110kVA	110kVA	105kVA	100kVA	92.5kVA	85kVA	77.5kVA	70kVA
	600 Vdc	110kVA	110kVA	105kVA	100kVA	94kVA	88kVA	82kVA	76kVA



Power- DC Input Voltage Curve

Power-DC Input Voltage Curve of SUN2000-100KTL-M1 (380/400Vac)

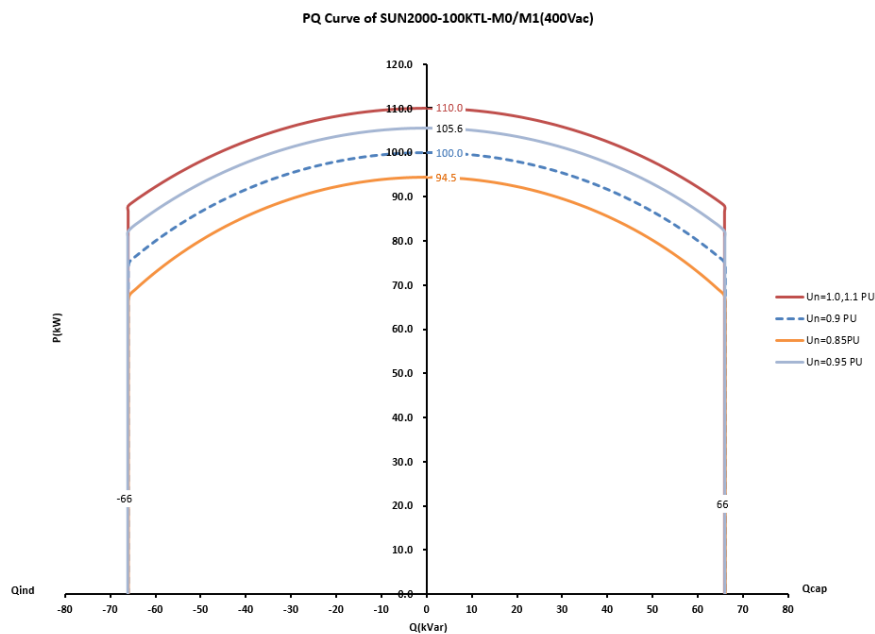
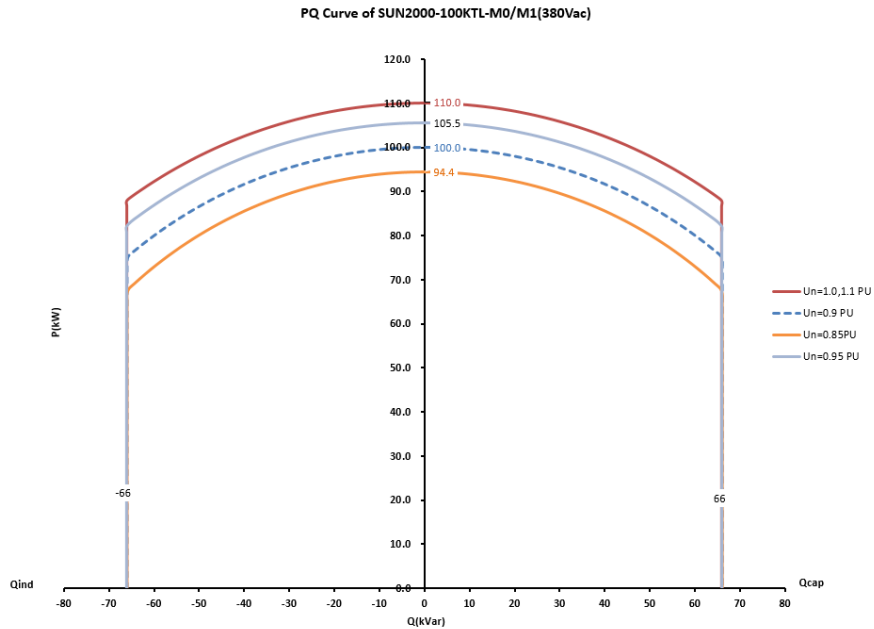


Note: The power-DC input voltage curve is shaped when PF equals 1.0.



PQ Curve

PQ Curve of SUN2000-100KTL-M1



Note: When SUN2000-100KTL-M1 operates at grid voltage 1.0/1.1 p.u., the output power can reach 110kW (when PF=1) or 110kVA.



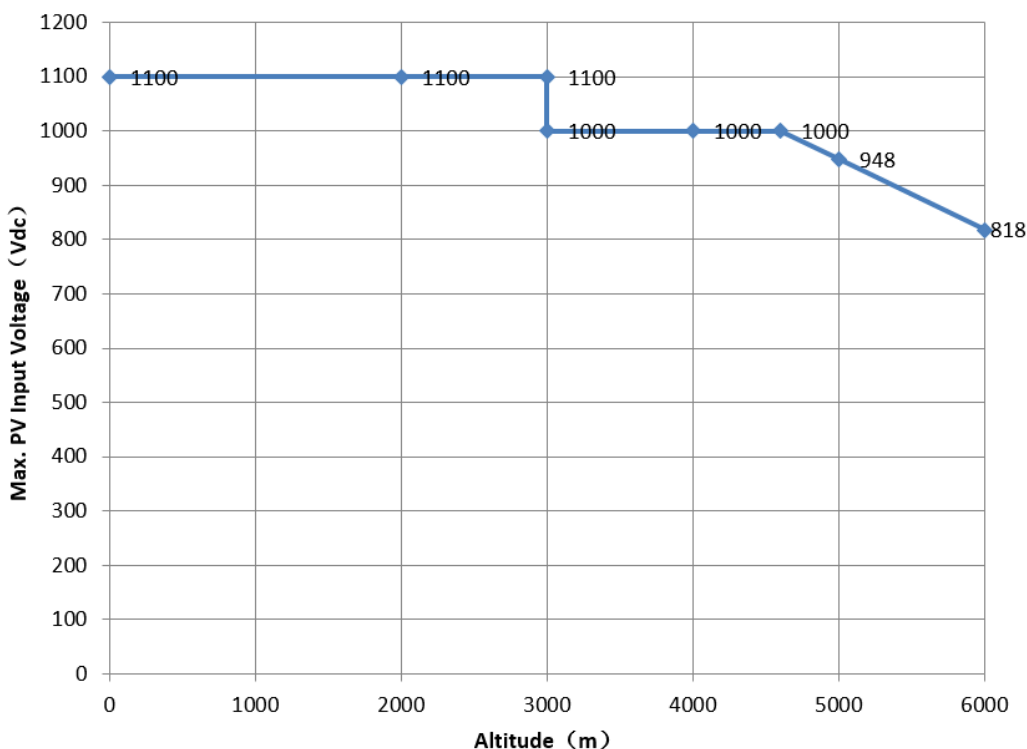
When SUN2000-100KTL-M1 operates at grid voltage 0.95 p.u., the output power can reach 105.5kW (when PF=1) or 105.5kVA.

When SUN2000-100KTL-M1 operates at grid voltage 0.9 p.u., the output power can reach 100kW (when PF=1) or 100kVA.

When SUN2000-100KTL-M1 operates at grid voltage 0.85 p.u., the output power can reach 94.5kW (when PF=1) or 94.5kVA.



Max. PV Input Voltage vs. Altitude of SUN2000-100KTL-M1 (380Vac/400Vac)



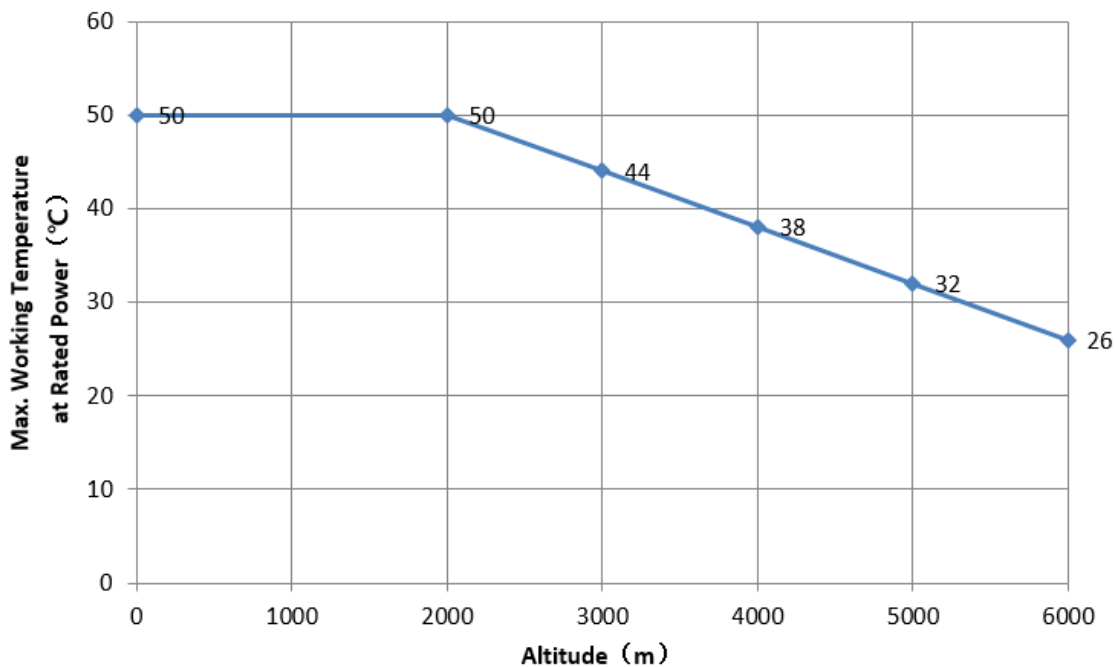
Note:

The safety distance of SUN2000 inverter is designed in accordance with running at the altitude of 4600m and below to avoid power de-rating. As altitude increases above 4600m, DC voltage de-rating of SUN2000 should be taken into consideration and DC voltage drop in accordance with 13V/100m.

For SUN2000 inverter, the rated AC voltage will not be affected by the altitude.



Maximum Working Temperature vs. Altitude of SUN2000-100KTL-M1 (380Vac/400Vac)



Note:

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

When the altitude rises, the cooling capacity of the inverters de-rates. 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 de-rate by altitude, and it de-rates in accordance with 6°C/1000m.