

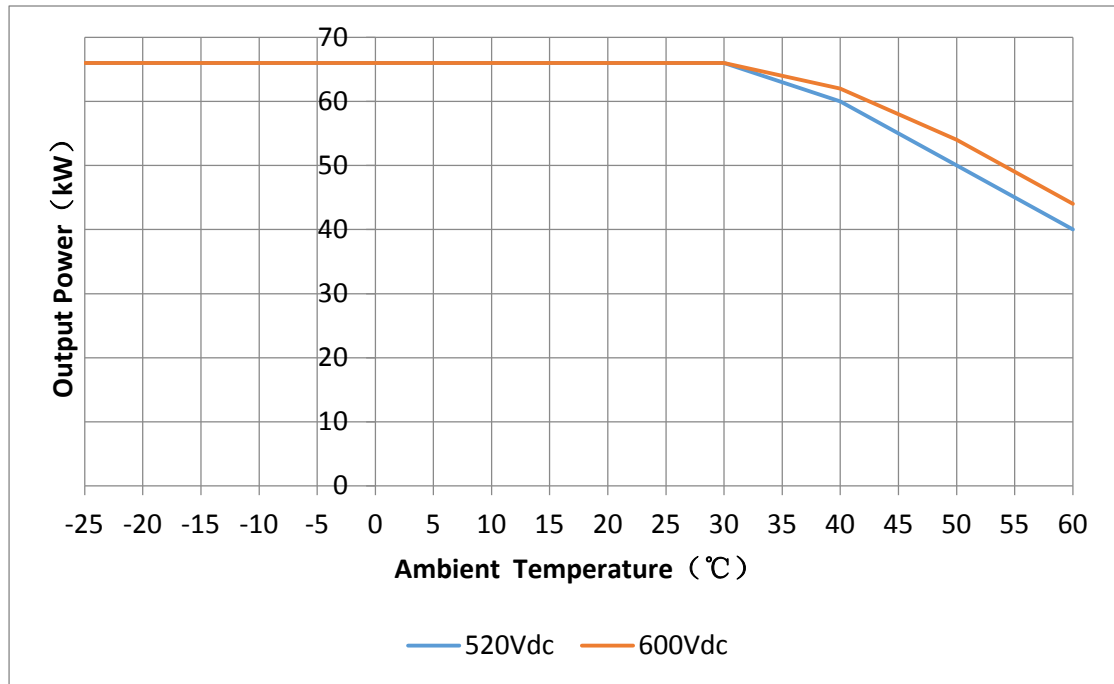
**De-rating Behavior and P-Q Curve of Inverter
SUN2000-60KTL-M0 (380_400Vac)**



Huawei Technologies Co., Ltd.

Version	Created by	Date	Remarks
01	Huawei	12/31/2017	

1. Temperature De-rating Curve of SUN2000-60KTL-M0 (380/400Vac)

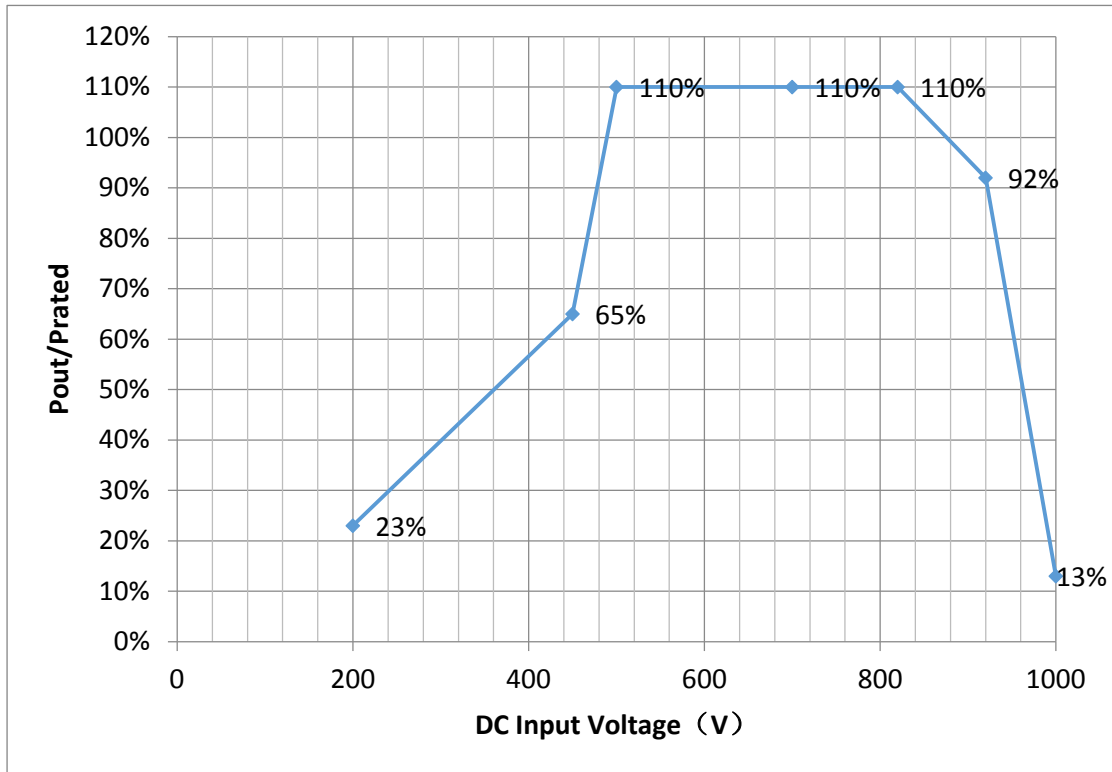


Air speed: 0.5m/s, PF=1

Model	MPPT Input	-25°C	15°C	30°C	40°C	50°C	60°C
SUN2000-60KTL-M0	520 Vdc	66kW	66kW	66kW	60kW	50kW	40kW
	600 Vdc	66kW	66kW	66kW	62kW	54kW	44kW

2. PV Input voltage De-rating Curve of SUN2000-60KTL-M0

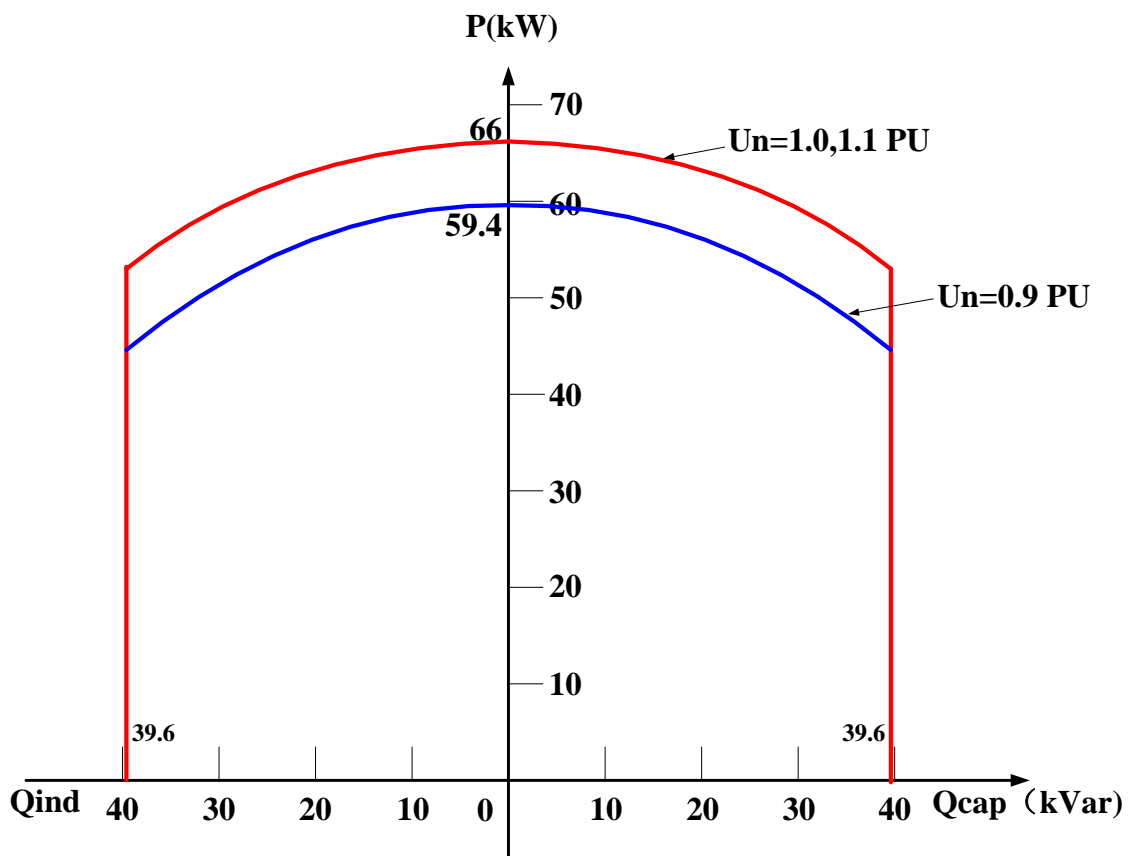
(380/400Vac)



Note: The PV input voltage de-rating curve works under condition that PF=1.0.

DC Input Voltage (V)	200	450	500	700	820	920	1000
Pout/Prated	23%	65%	110%	110%	110%	92%	13%

3. PQ Curve of SUN2000-60KTL-M0 @ 1.0 p.u. voltage (380/400Vac)

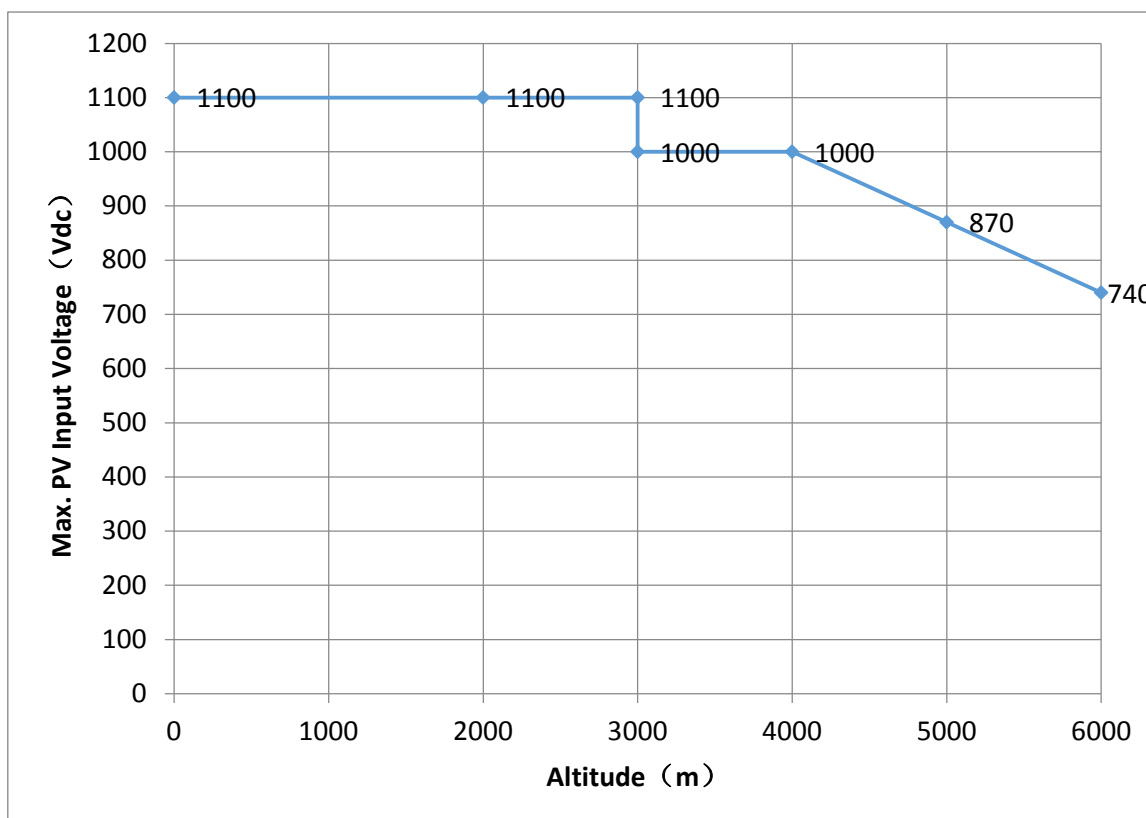


Note:

When SUN2000-60KTL-M0 is in the condition that it operates at rated and 1.1 rated output voltage, it can output 66kW (when PF=1) or 66kVA at most.

When SUN2000-60KTL-M0 is in the condition that it operates at 0.9 rated output voltage, it can output 59.4kW (when PF=1) or 59.4kVA at most.

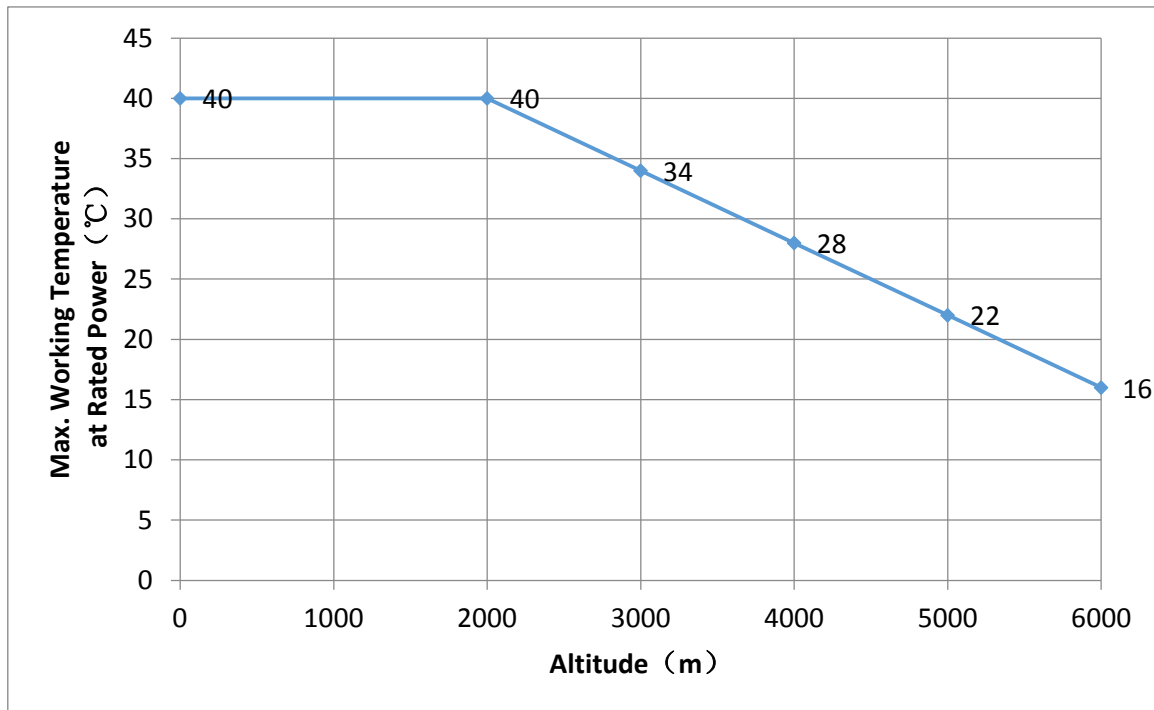
4. Max. PV Input Voltage vs. Altitude of SUN2000-60KTL-M0 (380/400Vac)



Note:

SUN2000 inverter design safety distance in accordance with running at the altitude of 4000m and below to avoid power de-rating. As altitude increases above 4000m, 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.

5. Maximum Working Temperature vs. Altitude of SUN2000-60KTL-M0 (380/400Vac)



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 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.

General Disclaimer:

The information in this document may contain predictive statements including, without limitation, statements regarding the future financial and operating results, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance. Huawei may change the information at any time without notice.