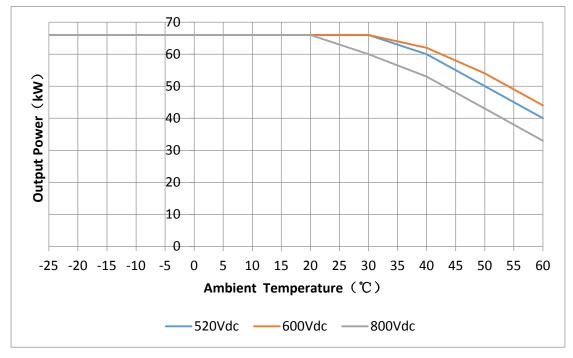
# De-rating Behavior and P-Q Curve of Inverter SUN2000-60KTL-M0 (380\_400Vac)



## Huawei Technologies Co., Ltd.

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

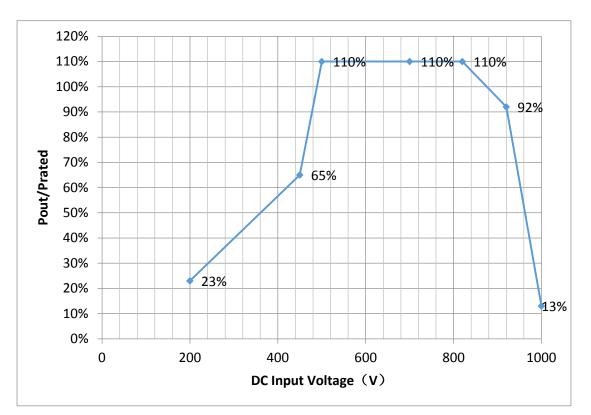


## 1. Temperature De-rating Curve of SUN2000-60KTL-M0 (380/400Vac)

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
	800 Vdc	66kW	66kW	60kW	53kW	43kW	33kW

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

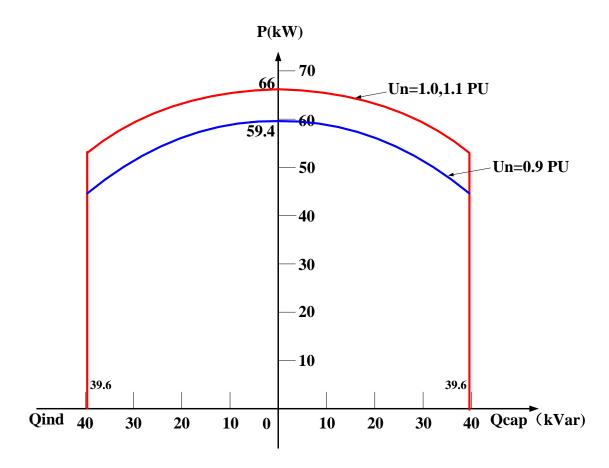


### (380/400Vac)

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

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

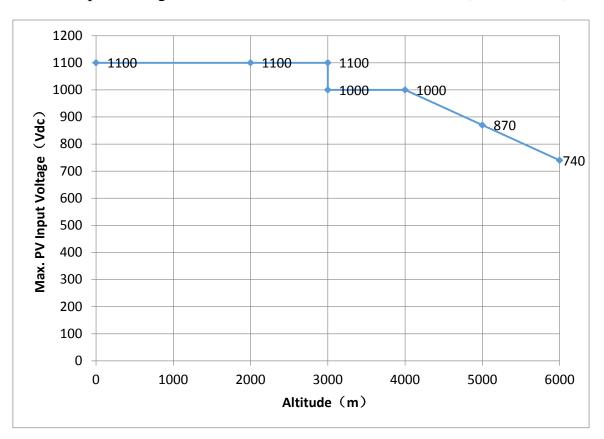
## 3. PQ Curve of SUN2000-60KTL-M0 @ 1.0 p.u. voltage (380/400Vac)



#### 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.

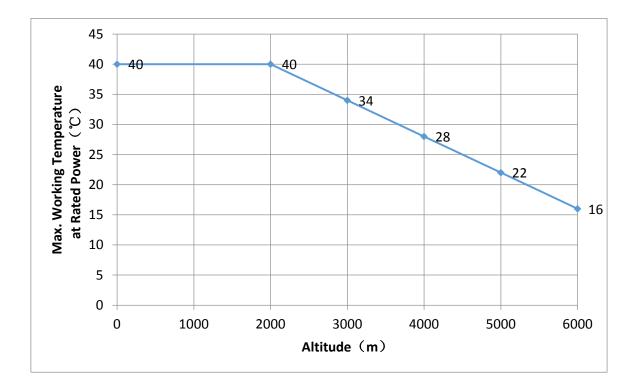
When SUN2000-60KTL-M0 is in the condition that it operates at 0.9 rated output voltage, it can output 59.4kW (when PF=1) or 59.4kVA at most.



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.



 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  $6^{\circ}C/1000m$ .

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