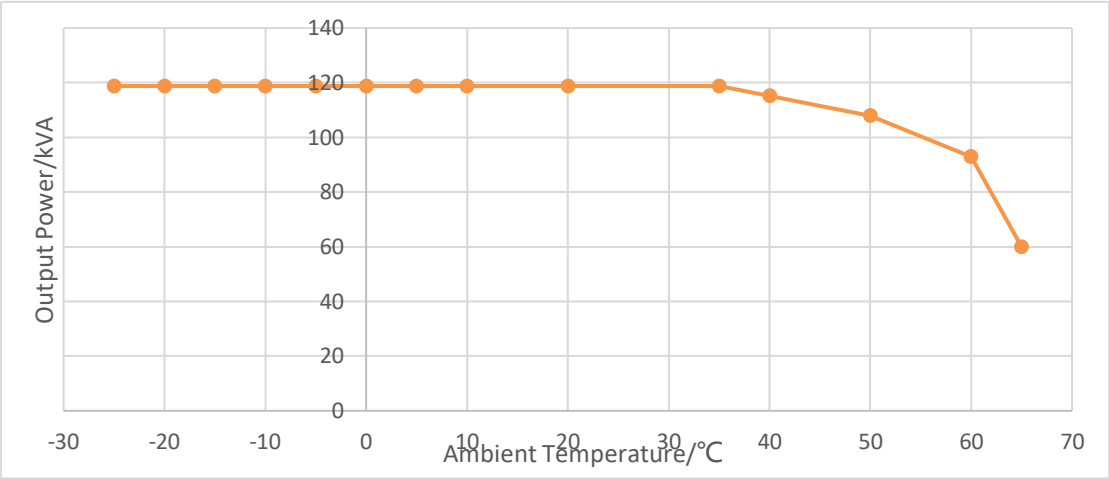
De-rating Curve VS. Ambient Temperature

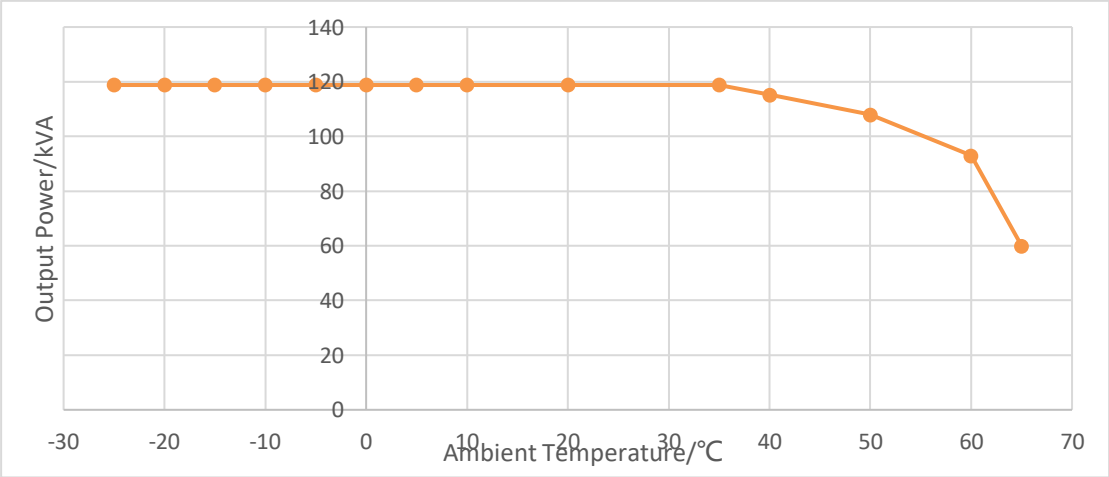
De-rating Curve(Maximum) VS. Ambient Temperature of PCS2000-108K-MB1

Discharging status, PF=1, Grid Voltage: 380Vac, Bus Voltage: 700-845Vdc



Model	-25℃	-20℃	-15℃	-10℃	-5℃	0℃	5℃
PCS2000-108K-MB1	118.8kVA	118.8kVA	118.8kVA	118.8kVA	118.8kVA	118.8kVA	118.8kVA
	10℃	20℃	35℃	40℃	50℃	60℃	65℃
	118.8kVA	118.8kVA	118.8kVA	115.2kVA	108kVA	93kVA	60kVA

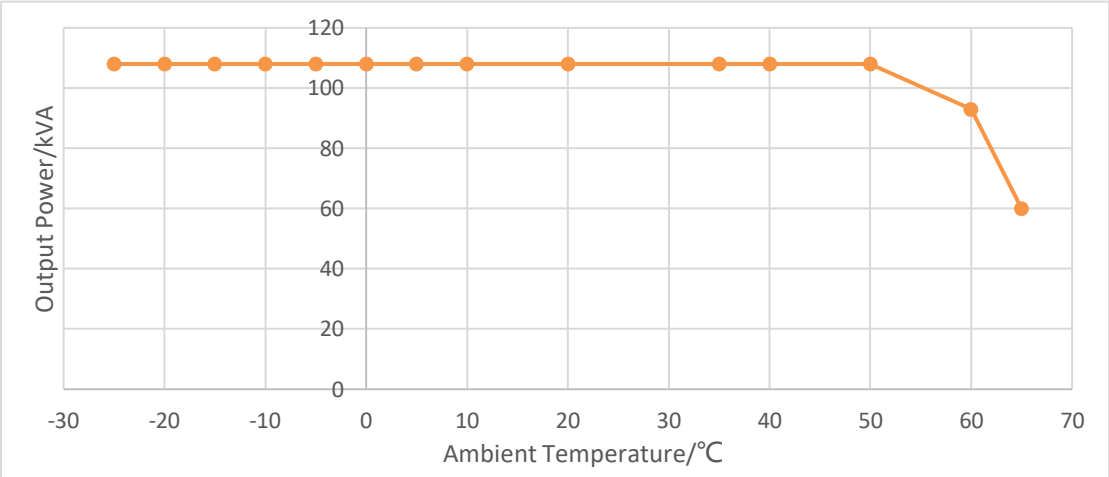
Charging status, PF=-1, Grid Voltage: 380Vac, Bus Voltage: 660-805Vdc



Model	-25℃	-20℃	-15℃	-10℃	-5℃	0℃	5℃
PCS2000-108K-MB1	118.8kVA	118.8kVA	118.8kVA	118.8kVA	118.8kVA	118.8kVA	118.8kVA
	10℃	20℃	35℃	40℃	50℃	60℃	65℃
	118.8kVA	118.8kVA	118.8kVA	115.2kVA	108kVA	93kVA	60kVA

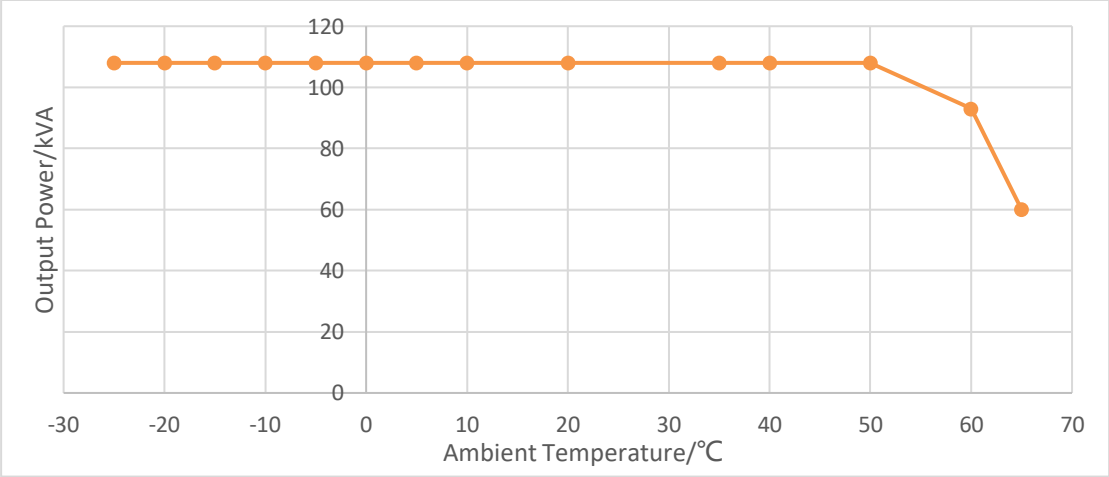
De-rating Curve(Rated) VS. Ambient Temperature of PCS2000-108K-MB1

Discharging status, PF=1, Grid Voltage: 380Vac, Bus Voltage: 700-845Vdc



Model	-25℃	-20℃	-15℃	-10℃	-5℃	0℃	5℃
PCS2000-108K-MB1	108kVA	108kVA	108kVA	108kVA	108kVA	108kVA	108kVA
	10℃	20℃	35℃	40℃	50℃	60℃	65℃
	108kVA	108kVA	108kVA	108kVA	108kVA	93kVA	60kVA

Charging status, PF=-1, Grid Voltage: 380Vac, Bus Voltage: 660-805Vdc



Model	-25℃	-20℃	-15℃	-10℃	-5℃	0℃	5℃
PCS2000-108K-MB1	108kVA	108kVA	108kVA	108kVA	108kVA	108kVA	108kVA
	10℃	20℃	35℃	40℃	50℃	60℃	65℃
	108kVA	108kVA	108kVA	108kVA	108kVA	93kVA	60kVA

Note:

1) The current derating curve is based on the certification requirements of the organization and is based on the rated power output derating curve.

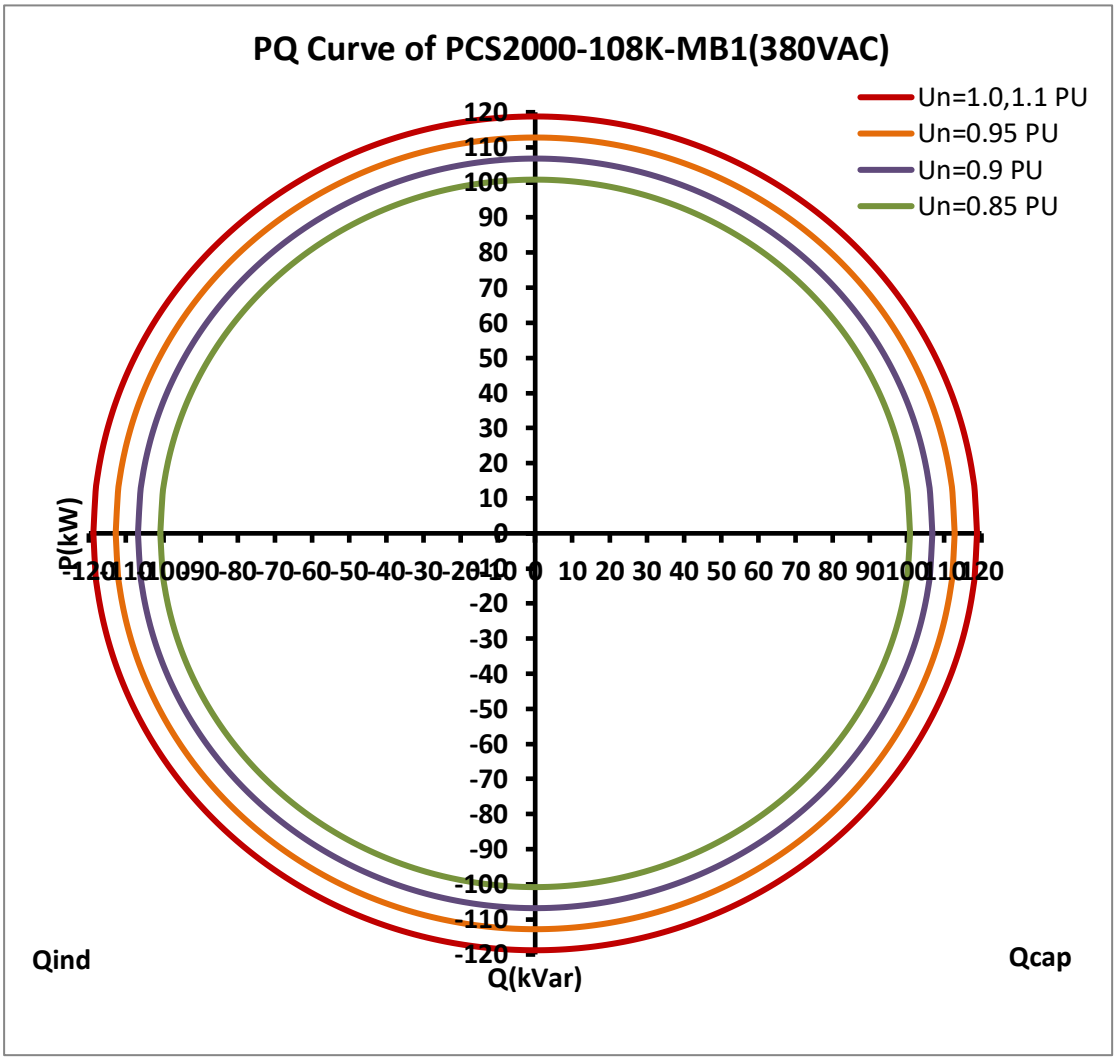
2) The ambient temperature denotes the temperature outside the energy storage systems.

3) The corresponding relationship between the ambient temperature and the water supply temperature is as follows:

Ambient Temperature(℃)	Water Temperature(℃)
65	65
60	65
50	60
40	60
35	57
30	51

PQ Curve

PQ Curve of PCS2000-108K-MB1



Note:

When PCS2000-108K-MB1 operates at grid voltage 1.0/1.1 p.u., the maximum output power is 118.8kW(when PF=±1), or 118.8kVA.

When PCS2000-108K-MB1 operates at grid voltage 0.95 p.u., the maximum output power is 112.9kW(when PF=±1), or 112.9kVA.

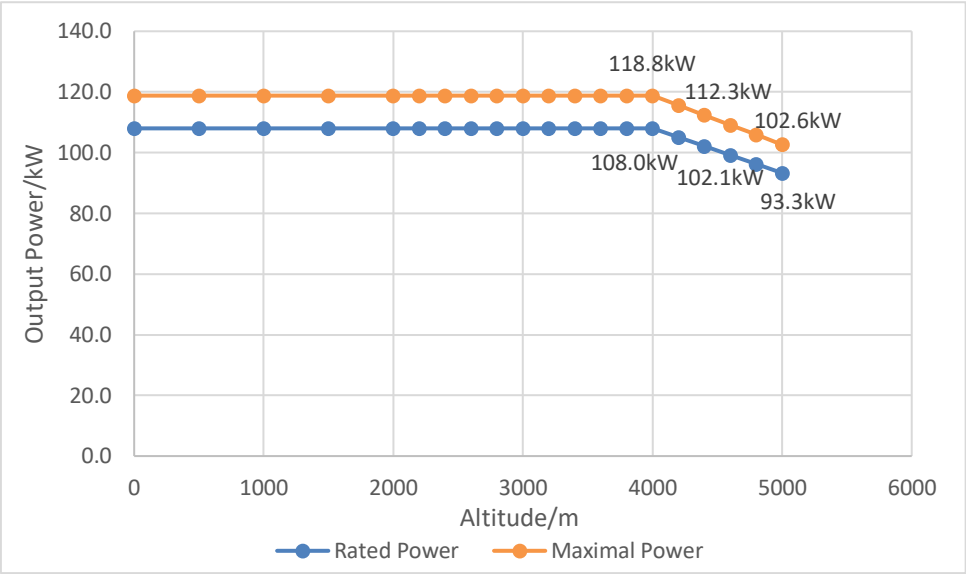
When PCS2000-108K-MB1 operates at grid voltage 0.9 p.u., the maximum output power is 106.9kW(when PF=±1), or 106.9kVA.

When PCS2000-108K-MB1 operates at grid voltage 0.85 p.u., the maximum output power is 101.0kW(when PF=±1), or 101.0kVA.

Derating Curve VS. Altitude

Smart PV Controller	PCS2000-108K-MB1				
Operating Altitude without Derating(m)	4000				
Maximum Operating Altitude(m)	5000				
Operating Altitude(m)	Rated Continuous Output(kW)	Maximum Continuous Output(kW)	Maximum DC Operating Voltage(V)	Maximum DC Open Circuit Voltage(V)	Rated AC Voltage(V)
2000	108.0	118.8	950	1100	380
2200	108.0	118.8	950	1100	380
2400	108.0	118.8	950	1100	380
2600	108.0	118.8	950	1100	380
2800	108.0	118.8	950	1100	380
3000	108.0	118.8	950	1100	380
3200	108.0	118.8	950	1100	380
3400	108.0	118.8	950	1100	380
3600	108.0	118.8	950	1100	380
3800	108.0	118.8	950	1100	380
4000	108.0	118.8	950	1100	380
4200	105.1	115.6	950	1070	380
4400	102.1	112.3	950	1040	380
4600	99.2	109.1	950	1010	380
4800	96.2	105.8	950	980	380
5000	93.3	102.6	950	950	380

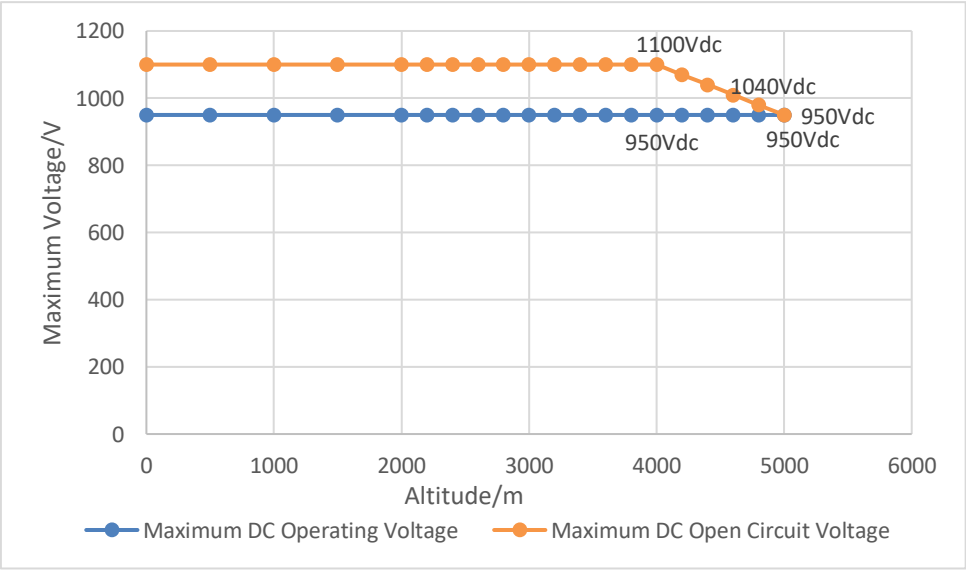
Power Curve VS. Altitude of PCS2000-108K-MB1



Note:

The power of PCS2000-108K-MB1 doesn't derate when altitude ≤ 4000 m. When altitude > 4000 m, the output power derating of PCS2000-108K-MB1 should be taken into consideration.

DC Voltage Curve of PCS2000-108K-MB1



Note:

The Maximal DC Voltage of PCS2000-108K-MB1 doesn't derate when altitude ≤ 4000 m. When altitude > 4000 m, DC voltage derating of PCS2000-108K-MB1 should be taken into consideration and the maximal DC voltage derates in accordance with 15.0 V/100 m.