



Characteristics Curve of Smart PCS

LUNA2000-200KTL-H0



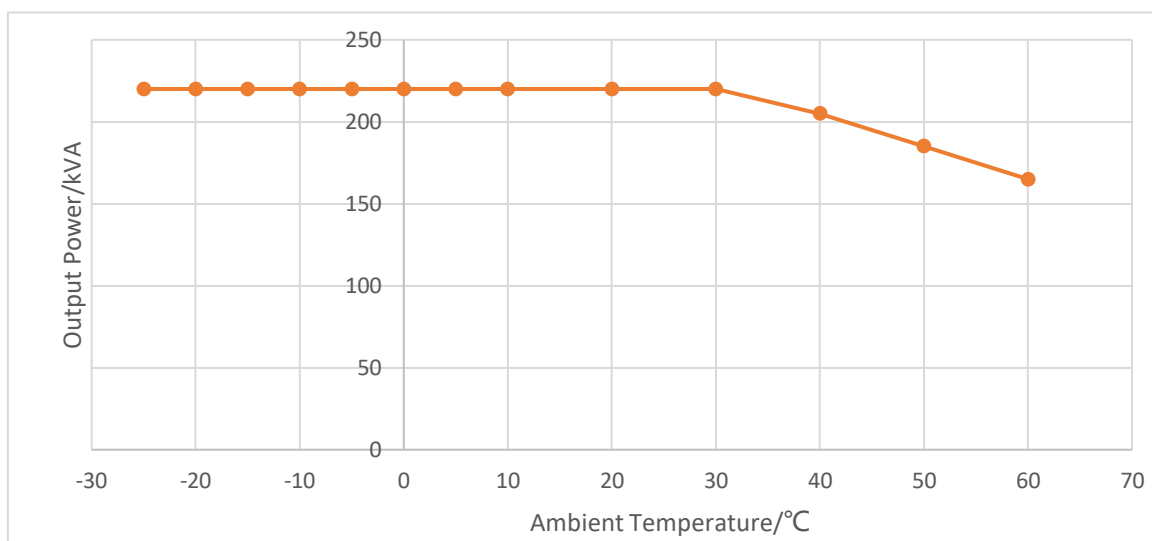
Huawei Technologies Co., Ltd.



De-rating Curve VS. Ambient Temperature

De-rating Curve VS. Ambient Temperature of LUNA2000-200KTL-H0

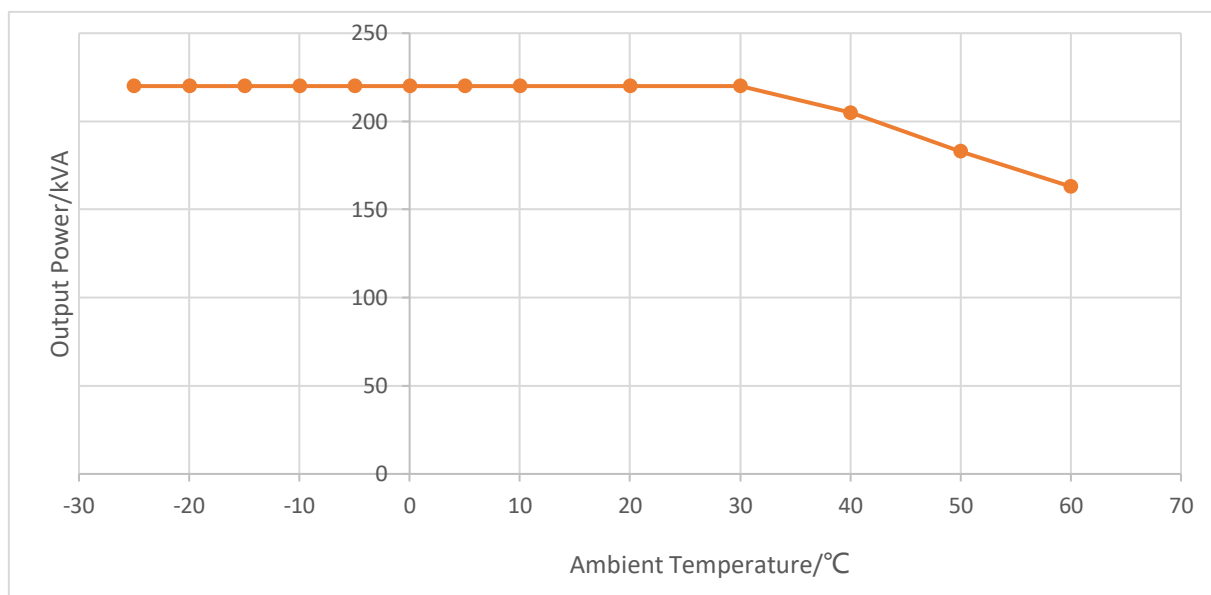
Discharging status, PF=1, Grid Voltage: 800Vac, Bus Voltage: 1200Vdc



Model	-25℃	-20℃	-15℃	-10℃	-5℃	0℃	5℃
LUNA2000-200KTL-H0	220 kVA	220 kVA	220 kVA	220 kVA	220 kVA	220 kVA	220 kVA
	10℃	20℃	30℃	40℃	50℃	60℃	/
	220 kVA	220 kVA	220 kVA	205 kVA	185 kVA	165 kVA	/



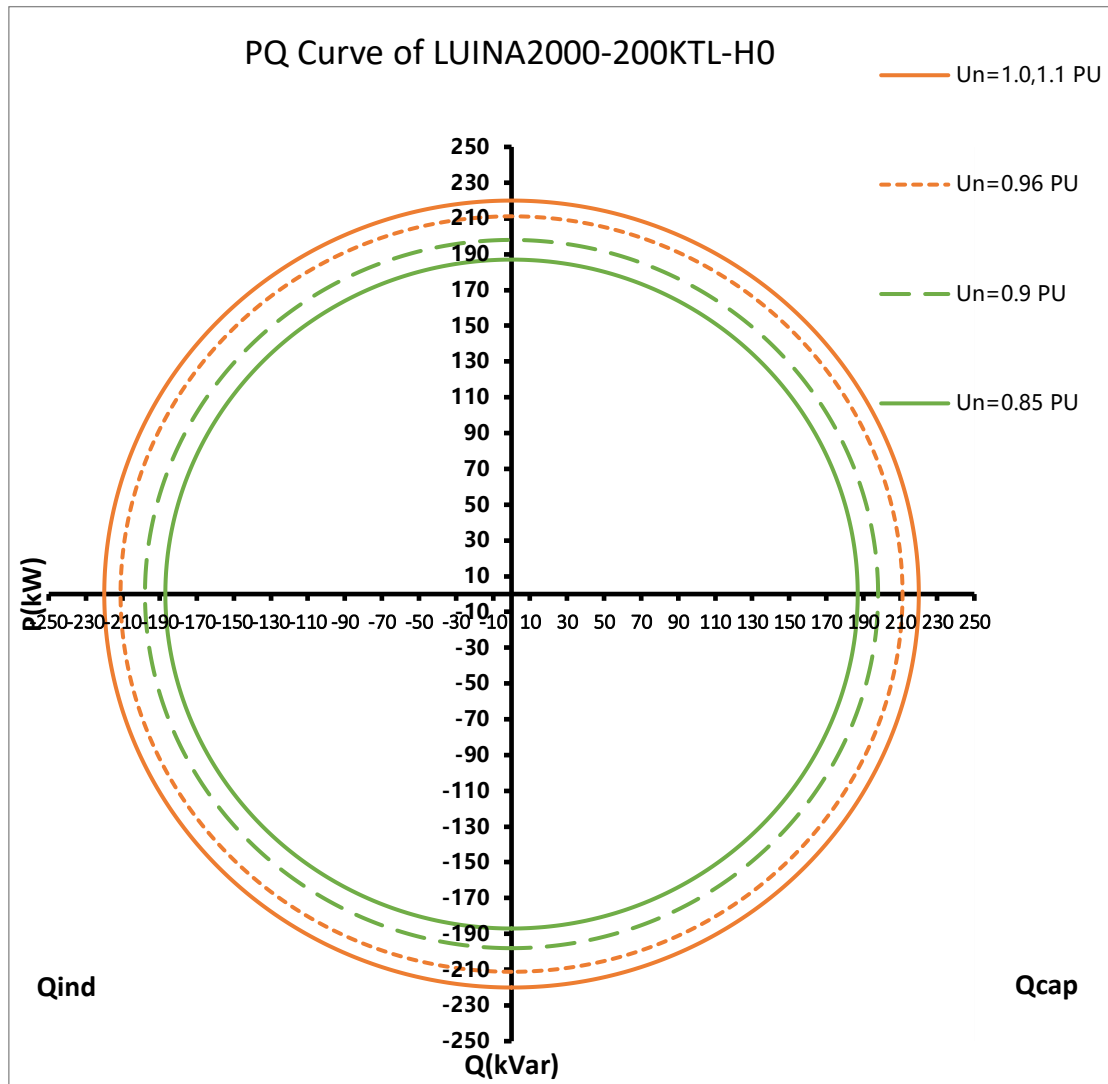
Charging status, PF=-1, Grid Voltage: 800Vac, Bus Voltage: 1200Vdc



Model	-25℃	-20℃	-15℃	-10℃	-5℃	0℃	5℃
LUNA2000-200KTL-H0	220 kVA	220 kVA	220 kVA	220 kVA	220 kVA	220 kVA	220 kVA
	10℃	20℃	30℃	40℃	50℃	60℃	/
	220 kVA	220 kVA	220 kVA	205 kVA	183 kVA	163 kVA	/

P-Q Curve

P-Q Curve of LUNA2000-200KTL-H0



Note:

When LUNA2000-200KTL-H0 operates at grid voltage 1.0/1.1 p.u., the maximum output power is 220 kW(when $PF=\pm 1$), or 220 kVA.

When LUNA2000-200KTL-H0 operates at grid voltage 0.96 p.u., the maximum output power is 211.2 kW(when $PF=\pm 1$), or 211.2 kVA.

When LUNA2000-200KTL-H0 operates at grid voltage 0.9 p.u., the maximum output power is 198 kW(when $PF=\pm 1$), or 198 kVA.

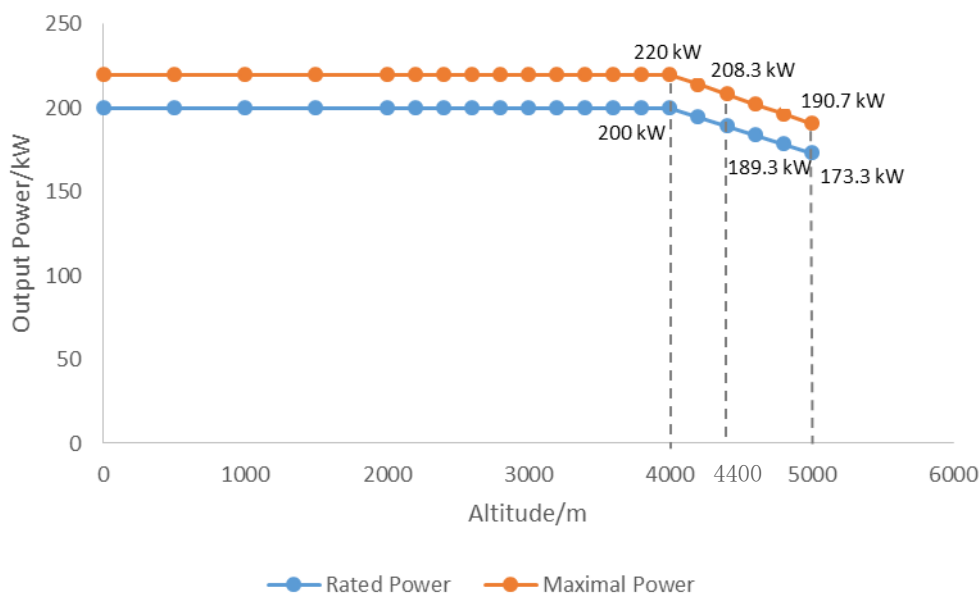
When LUNA2000-200KTL-H0 operates at grid voltage 0.85 p.u., the maximum output power is 187 kW(when $PF=\pm 1$), or 187 kVA.



Derating Curve VS. Altitude

Smart PV Controller	LUNA2000-200KTL-H0				
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	200.0	220.0	1500	1500	800
2200	200.0	220.0	1500	1500	800
2400	200.0	220.0	1500	1500	800
2600	200.0	220.0	1500	1500	800
2800	200.0	220.0	1500	1500	800
3000	200.0	220.0	1500	1500	800
3200	200.0	220.0	1500	1500	800
3400	200.0	220.0	1500	1500	800
3600	200.0	220.0	1500	1500	800
3800	200.0	220.0	1500	1500	800
4000	200.0	220.0	1500	1500	800
4200	194.7	214.1	1460	1460	779
4400	189.3	208.3	1420	1420	757
4600	184.0	202.4	1380	1380	736
4800	178.7	196.5	1340	1340	715
5000	173.3	190.7	1300	1300	693

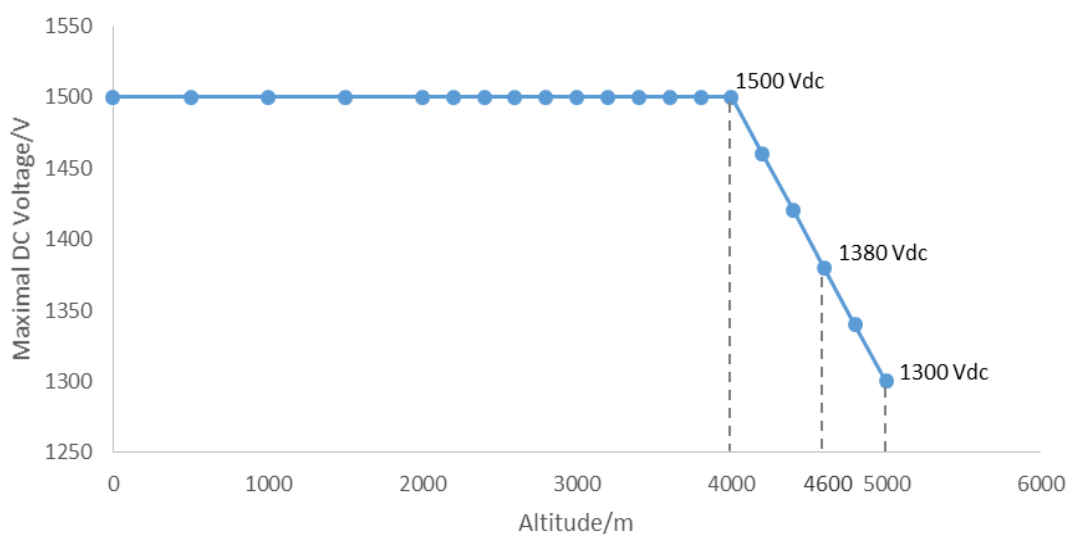
Power Curve VS. Altitude of LUNA2000-200KTL-H0



Note:

The power of LUNA2000-200KTL-H0 Smart PCS doesn't derate when altitude ≤ 4000 m. When altitude > 4000 m, the output power derating of LUNA2000-200KTL-H0 should be taken into consideration.

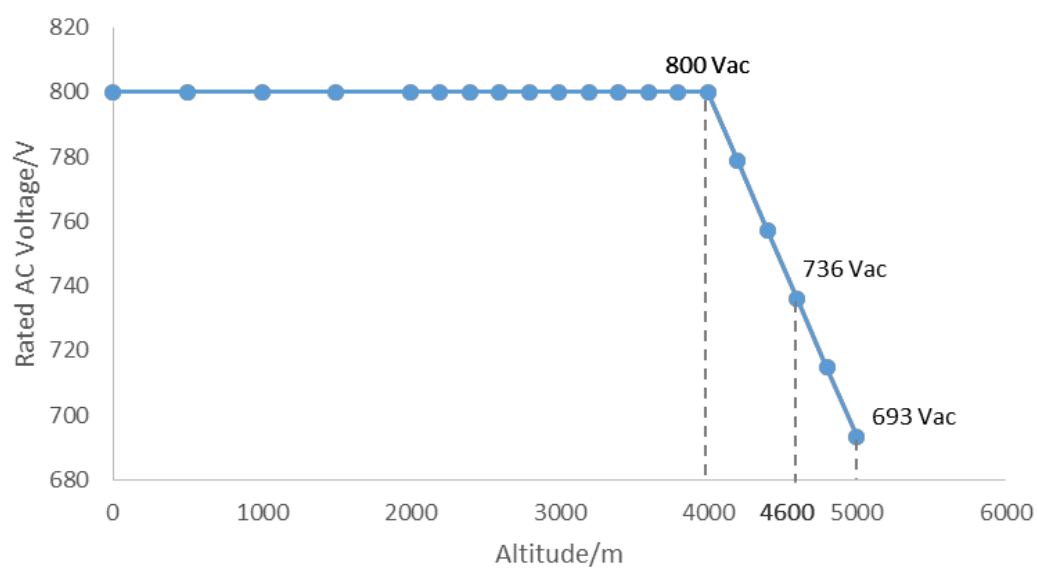
DC Voltage Curve of LUNA2000-200KTL-H0



Note:

The Maximal DC Voltage of LUNA2000-200KTL-H0 doesn't derate when altitude ≤ 4000 m.

When altitude > 4000 m, DC voltage derating of LUNA2000-200KTL-H0 should be taken into consideration and the maximal DC voltage derates in accordance with 20.0 V/100 m.

AC Voltage Curve of LUNA2000-200KTL-H0**Note:**

The Rated AC Voltage of LUNA2000-200KTL-H0 Smart PCS doesn't derate when altitude ≤ 4000 m. When altitude > 4000 m, the rated AC voltage derating of LUNA2000-200KTL-H0 should be taken into consideration.