

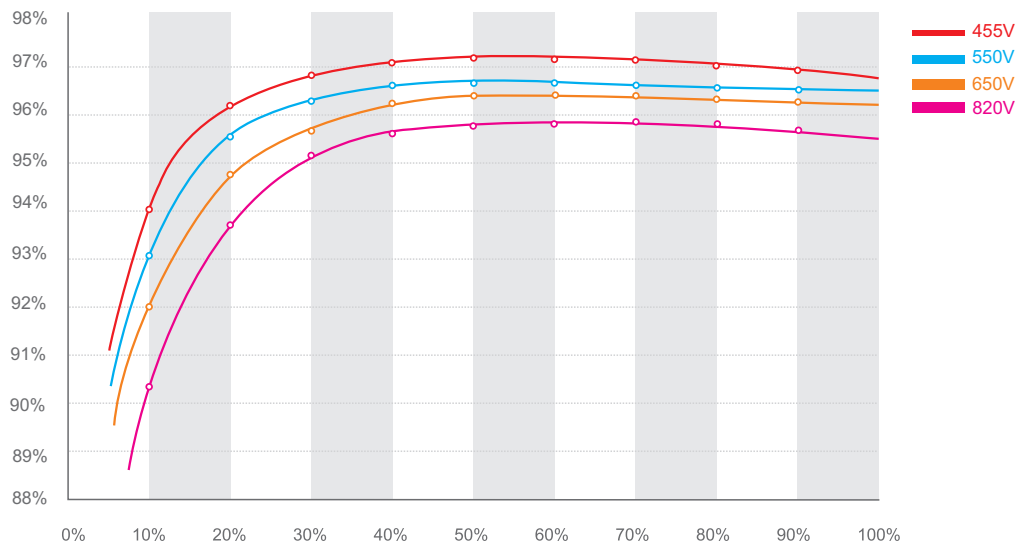
Growatt CP250

Leading - edge Technology

- ▶ High conversion efficiency of 98.6% deliver more energy
- ▶ Powerful grid management functions(including LVRT)
- ▶ Active power continuous adjustment (0-100%)
- ▶ Reactive power adjustable ,PF range 0.9lagging-0.9leading
- ▶ Friendly touch monitoring interface, easy installation maintenance procedure
- ▶ Design for max.ROI: Newest generation IGBTs and advanced MPPT Algorithms
- ▶ Auxiliary electrical heating (optional)
- ▶ Comprehensive protection for overvoltage, islanding, short-circuit, overload, overheat etc.
- ▶ Certificate and approvals including CE, CGC, VDE0126, TUV etc.



250k efficiency



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Growatt CP250

Input Data

Max. DC power	285KW
Max. DC voltage	1000V
DC Voltage Range	450V - 1000V
MPPT Voltage Range	450V - 820V
Rated Input Voltage	600V
Start Voltage/Power	500V/2500W
Maximum Input Current	635A
Number of Independent MPPT	1
Number of DC Inputs	6

Output (AC)

Rated AC Power	250KVA
Rated AC Voltage	400V
AC Voltage Range	310V - 450V
Rated Frequency	50Hz/60Hz
Frequency Range	45Hz-55Hz/55Hz-65Hz
Maximum Output Current	400A
Power Factor (cosφ)	0.9lagging – 0.9leading
Total Harmonic Distortion	<3%(@Pac,r)

Efficiency

Maximum Efficiency	97.3%
Euro Efficiency	96.7%
MPPT Efficiency	99.9%

Protection

DC Disconnection Device	DC circuit breaker
AC Disconnection Device	AC circuit breaker
DC Overvoltage Protection	Surge arrester type II
AC Overvoltage Protection	Surge arrester type II
Grid monitoring/Management	yes/yes
Ground monitoring	yes
Over Temperature Protection	yes
Insulation monitoring	yes

General Data

Dimension (W/H/D)	1600/2100/850 mm
Weight	1600kg
Operating Temperature Range	-25 °C ... +55 °C
Relative Humidity	0 - 95%
Degree of Protection	IP 20
Noise Emission	65dB(A)@1m
Maximum Operating Altitude	6000m(Derating over 3000m)
Standby consumption	<100W
Cooling	Air Forced
Topology	Low Frequency Transformer
Display	Touch screen LCD
Communication Interface	RS 485/ Ethernet

Certificates and Approvals

CE/TUV, CQC, CGC, LVRT