

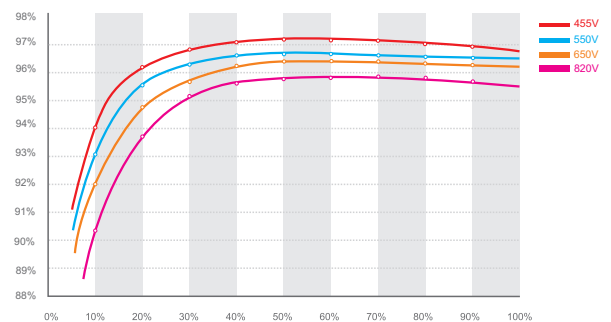
Growatt CP250



Leading - edge Technology

- ▶ Max efficiency over 97.3%, 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
- ▶ Certificate and approvals included
- ▶ 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.

Growatt CP250 efficiency



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Datasheet**Growatt CP250****Input Data**

Max. DC power	285KW
Max. DC voltage	1000V
DC Voltage Range	450V - 1000V
MPPT Voltage Range	450V - 850V
Rated Input Voltage	600V
Start Voltage/Power	500V/2500W
Maximum Input Current	635A
Number of Independent MPPT	1
Number of DC Inputs	4

Output Data(AC)

Rated AC Power	250KVA
Rated AC Voltage	400V
AC Voltage Range	310V - 450V
Rated Frequency	50Hz/60Hz
Frequency Range	45-55Hz/55-65Hz
Rated current	361A
Maximum Output Current	400A
Power Factor (cos ϕ)	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, fuse (opt)
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)	1600/2080/850 mm
Weight	1465kg
Operating Temperature Range	-25 °C ... +55 °C
Relative Humidity	0~95%
Degree of Protection	IP20
Noise Emission	65dB(A)@1m
Maximum Operating Altitude	6000m(Derating over 3000m)
Standby consumption	<30W
Cooling	Air Forced
Topology	Low Frequency Transformer
Display	Touch screen LCD
Communication Interface	RS485/ Ethernet

Certificates and Approvals

CE, TUV, CGC, LVRT, ZVRT