

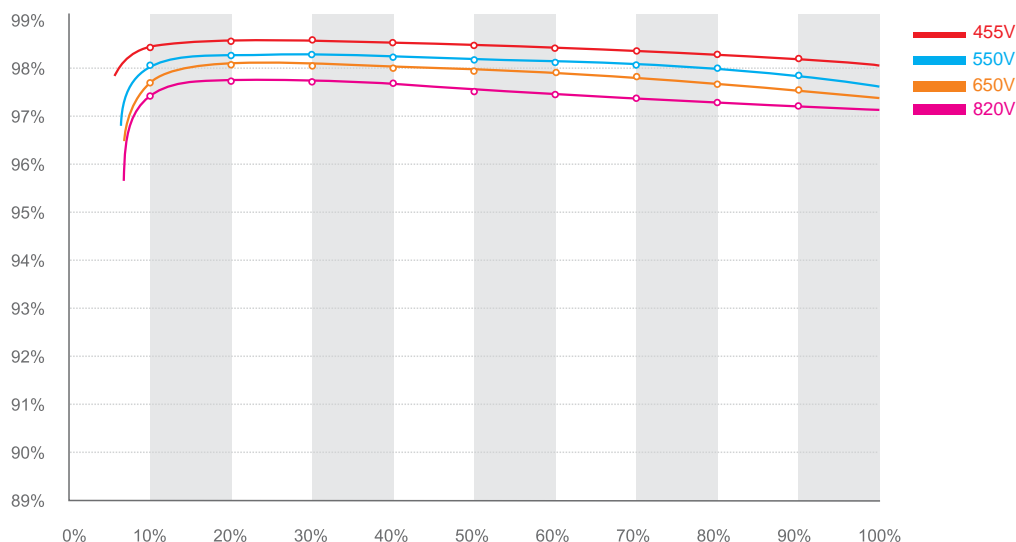
Growatt CP500TL / CP630TL

Leading - edge Technology

- ▶ Max efficiency over 98%, deliver more energy
- ▶ Powerful grid management functions(including LVRT)
- ▶ Active power continuous adjustment (0-100%)
- ▶ Reactive power adjustable ,PF range 0.9lagging-0.9leading
- ▶ Transformer-less inverter for direct connection to MV transformer
- ▶ 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, CQC, TUV etc.



500k efficiency



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	Growatt CP500TL	Growatt CP630TL
Input Data		
Max. DC power	575KW	725KW
Max. DC voltage	1000V	1000V
DC Voltage Range	450V - 1000V	450V - 1000V
MPPT Voltage Range	450V - 820V	500V - 820V
Rated Input Voltage	600V	600V
Start Voltage/Power	500V/5000W	500V/6300W
Maximum Input Current	1270A	1450A
Number of Independent MPPT	1	1
Number of DC Inputs	2x6	2x6
Output (AC)		
Rated AC Power	500KVA	630KVA
Rated AC Voltage	270V	315V
AC Voltage Range	210V - 310V	250V - 362V
Rated Frequency	50Hz/60Hz	50Hz/60Hz
Frequency Range	45Hz-55Hz/55Hz-65Hz	45Hz-55Hz/55Hz-65Hz
Maximum Output Current	1200A	1296A
Power Factor (cosφ)	0.9lagging – 0.9leading	0.9lagging – 0.9leading
Total Harmonic Distortion	<3%(@Pac,r)	<3%(@Pac,r)
Efficiency		
Maximum Efficiency	98.6%	98.7%
Euro Efficiency	98.3%	98.5%
MPPT Efficiency	99.9%	99.9%
Protection		
DC Disconnection Device	DC circuit breaker	DC circuit breaker
AC Disconnection Device	AC circuit breaker	AC circuit breaker
DC Overvoltage Protection	Surge arrester type II	Surge arrester type II
AC Overvoltage Protection	Surge arrester type II	Surge arrester type II
Grid monitoring/Management	yes/yes	yes/yes
Ground monitoring	yes	yes
Over Temperature Protection	yes	yes
Insulation monitoring	yes	yes
General Data		
Dimension (W/H/D)	2000/2200/850 mm	2000/2200/850 mm
Weight	1600kg	1600kg
Operating Temperature Range	-25 °C ... +55 °C	-25 °C ... +55 °C
Relative Humidity	0 - 95%	0 - 95%
Degree of Protection	IP 20	IP 20
Noise Emission	65dB(A)@1m	65dB(A)@1m
Maximum Operating Altitude	6000m(Derating over 3000m)	6000m(Derating over 3000m)
Standby consumption	<100W	<100W
Cooling	Air Forced	Air Forced
Topology	Low Frequency Transformer	Low Frequency Transformer
Display	Touch screen LCD	Touch screen LCD
Communication Interface	RS 485/ Ethernet	RS 485/ Ethernet
Certificates and Approvals		
CE/TUV, CQC, CGC, LVRT		