

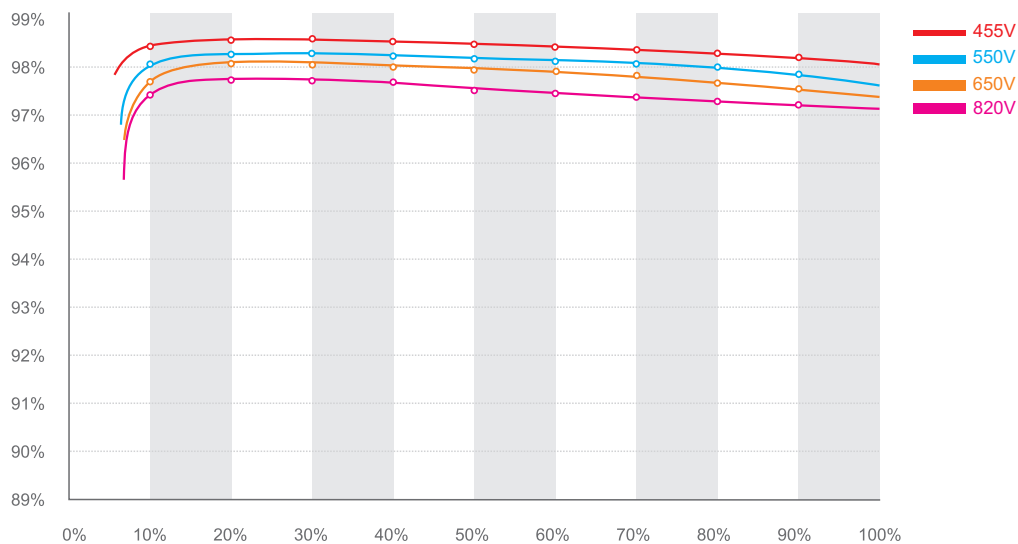
Growatt CP500TL / CP630TL

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
- ▶ 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/TUV, CGC, ZVRT, LVRT etc.



500k efficiency



GROWATT NEW ENERGY CO., LTD

No. 28 Guangming Road, Shiyan, Baoan District, Shenzhen, P.R. China

T: + 86 755 2951 5888 F: + 86 755 2747 2131 E: info@ginverter.com

| | Growatt CP500TL | Growatt CP630TL |
|-----------------------------------|----------------------------|----------------------------|
| Input Data | | |
| Max. DC power | 560KW | 725KW |
| Max. DC voltage | 1000V | 1000V |
| DC Voltage Range | 500V - 1000V | 500V - 1000V |
| MPPT Voltage Range | 500V - 850V | 500V - 850V |
| Rated Input Voltage | 600V | 600V |
| Start Voltage/Power | 520V/5000W | 520V/6300W |
| Maximum Input Current | 1120A | 1450A |
| Number of Independent MPPT | 1 | 1 |
| Number of DC Inputs | 2x5 | 2x6 |
| Output (AC) | | |
| Rated AC Power | 500KVA | 630KVA |
| Rated AC Voltage | 315V | 315V |
| AC Voltage Range | 250V - 362V | 250V - 362V |
| Rated Frequency | 50Hz/60Hz | 50Hz/60Hz |
| Frequency Range | 45Hz-55Hz/55Hz-65Hz | 45Hz-55Hz/55Hz-65Hz |
| Maximum Output Current | 1008A | 1296A |
| Power Factor (cosφ) | 0.9lagging – 0.9leading | 0.9lagging – 0.9leading |
| Total Harmonic Distortion | <3%(@Pac,r) | <3%(@Pac,r) |
| Efficiency | | |
| Maximum Efficiency | 98.7% | 98.7% |
| Euro Efficiency | 98.5% | 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 | Transformerless | Transformerless |
| Display | Touch screen LCD | Touch screen LCD |
| Communication Interface | RS 485/ Ethernet | RS 485/ Ethernet |
| Certificates and Approvals | | |
| CE/TUV, CGC, ZVRT, LVRT | | |