

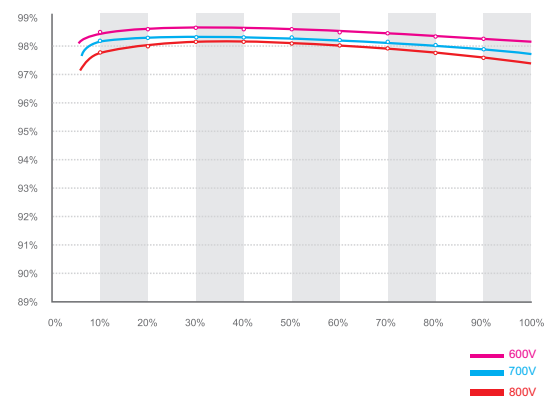
## Growatt CP500TL-S / CP630TL-S



### Leading - edge Technology

- ▶ High conversion efficiency of 98.7% 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.

Growatt CP500TL-S efficiency



### GROWATT NEW ENERGY TECHNOLOGY Co.,LTD

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## Datasheet

### Growatt CP500TL-S

### Growatt CP630TL-S

#### Input Data

Max. DC power	575kW	725kW
Max. DC voltage	1000V	1000V
DC Voltage Range	600V - 1000V	600V - 1000V
MPPT Voltage Range	600V - 900V	600V - 900V
Rated Input Voltage	700V	700V
Start Voltage/Power	620V/5000W	620V/6300W
Maximum Input Current	910A	1150A
Number of Independent MPPT	1	1
Number of DC Inputs	8	10

#### Output (AC)

Rated AC Power	500KVA	630KVA
Max AC Power(<50°C ambient)	550KVA	690KVA
Rated AC Voltage	400V	400V
AC Voltage Range	320V - 460V	320V - 460V
Rated Frequency	50Hz/60Hz	50Hz/60Hz
Frequency Range	45-55Hz/55-65Hz	45-55Hz/55-65Hz
Rated current	722A	910A
Maximum Output Current	790A	1000A
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 for each input	DC circuit breaker for each input
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)	1205/1905/800 mm	1205/1905/800 mm
Weight	900kg	900kg
Operating Temperature Range	-25 °C ...+70°C(>55°C derating)	-25 °C ...+70°C(>55°C derating)
Relative Humidity	0~95%	0~95%
Degree of Protection	IP20	IP20
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	RS485/ Ethernet	RS485/ Ethernet

#### Certificates and Approvals

PEA,CE,CGC, LVRT, IEC 60068, IEC 61683, IEC 61727, IEC 62116