

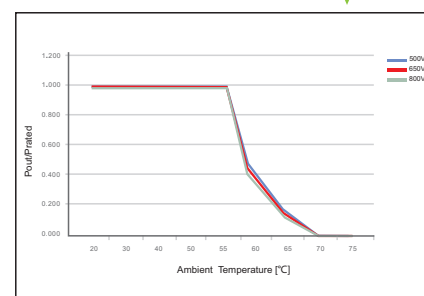
Growatt CP500TL-S / CP630TL-S



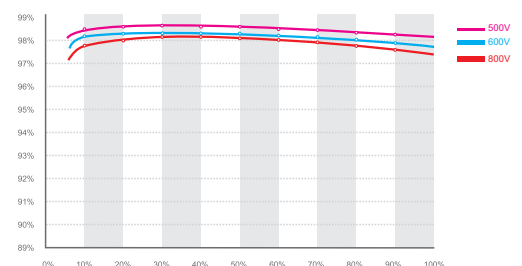
Leading - edge Technology

- ▶ 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.

Temperature derating characteristics



Growatt CP500TL-S efficiency



GROWATT NEW ENERGY TECHNOLOGY Co.,LTD

A: No.28 Guangming Road, Longteng Community, Shiyan, Baoan District, Shenzhen, P.R.China.

T: + 86 755 2747 1900 F: + 86 755 2749 1460 E: info@ginverter.com

Datasheet**Growatt CP500TL-S****Growatt CP630TL-S****Input Data**

Max. DC power
Max. DC voltage
DC Voltage Range
MPPT Voltage Range
Rated Input Voltage
Start Voltage/Power
Maximum Input Current
Number of Independent MPPT
Number of DC Inputs

575KW
1000V
600V - 1000V
600V - 900V
700V
620V/5000W
910A
1
8

725KW
1000V
600V - 1000V
600V - 900V
700V
620V/6300W
1150A
1
10

Output (AC)

Rated AC Power
Rated AC Voltage
AC Voltage Range
Rated Frequency
Frequency Range
Rated current
Maximum Output Current
Power Factor (cos ϕ)
Total Harmonic Distortion

500KVA
400V
320V - 460V
50Hz/60Hz
45-55Hz/55-65Hz
722A
790A
0.9lagging – 0.9leading
<3%(@Pac,r)

630KVA
400V
320V - 460V
50Hz/60Hz
45-55Hz/55-65Hz
910A
1000A
0.9lagging – 0.9leading
<3%(@Pac,r)

Efficiency

Maximum Efficiency
Euro Efficiency
MPPT Efficiency

98.7%
98.5%
99.9%

98.7%
98.5%
99.9%

Protection

DC Disconnection Device
AC Disconnection Device
DC Overvoltage Protection
AC Overvoltage Protection
Grid monitoring/Management
Ground monitoring
Over Temperature Protection
Insulation monitoring

DC circuit breaker for each input
AC circuit breaker
Surge arrester type II
Surge arrester type II
yes/yes
yes
yes
yes

DC circuit breaker for each input
AC circuit breaker
Surge arrester type II
Surge arrester type II
yes/yes
yes
yes
yes

General Data

Dimension (W/H/D)
Weight
Operating Temperature Range
Relative Humidity
Degree of Protection
Noise Emission
Maximum Operating Altitude
Standby consumption
Cooling
Topology
Display
Communication Interface

1205/1905/800 mm
900kg
-25 °C ...+55 °C
0~95%
IP20
65dB(A)@1m
6000m(Derating over 3000m)
<100W
Air Forced
Transformerless
Touch screen LCD
RS485/ Ethernet

1205/1905/800 mm
900kg
-25 °C ...+55 °C
0~95%
IP20
65dB(A)@1m
6000m(Derating over 3000m)
<100W
Air Forced
Transformerless
Touch screen LCD
RS485/ Ethernet

Certificates and Approvals

PEA,CE,CGC, LVRT