



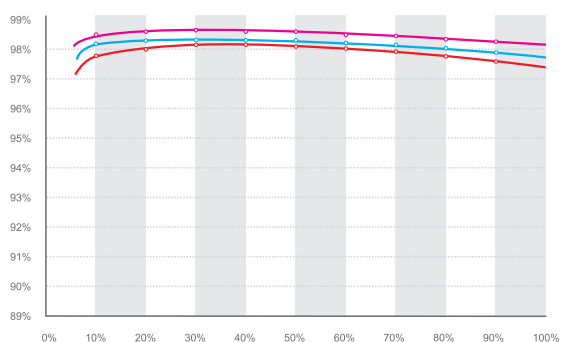
# Growatt CP850TL-S



## 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 t ransformer
- Friendly touch monitoring interface, easy installation maintenance procedure
- Design for max.ROI: Newest generation IIGBTs and advanced MPPT Algorithms
- Auxiliary electrical heating (optional)
- Comprehensive protection for overvoltage islanding,shortcircuit, overload,overheat etc.

Growatt CP850TL-S 效率曲線  
Growatt CP850TL-S efficiency





## Growatt CP850TL-S

### Input Data

Max. DC power	975kW
Max. DC voltage	1000V
DC V oltag e Range	600V - 1000V
MPPT Voltage Range	600V - 900V
Rated Input V oltag e	700V
Start Voltage/Power	620V/8500W
Maximum Input Curr ent	1550A
Number of Independent MPPT	1
Number of DC Inputs	12

### Output (AC)

Rated AC Power	850kV A
Max AC Power(<50 °C ambient)	935kV A
Rated AC V oltag e	400V
AC V oltag e Range	320V - 460V
Rated Frequency	50Hz/60Hz
Frequency Range	45-55Hz/55-65Hz
Rated current	1227A
Maximum Output Current	1300A
Power Factor (cosφ)	0.9lagging – 0.9leading
Total Harmonic Distortion	<3%(@Pac,r)

### Efficiency

Maximum Efficiency	98.7%
Euro Efficiency	98.5%
MPPT Efficiency	99.9%

### Protection

DC Disconnection Device	DC circuit breaker for each input
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)	1600/1900/850 mm
Weight	965kg
Operating T emperature Range	- 25 °C ...+ 70 °C (>55 °C derating)
Relative Humidity	0~95%
Degree of Protection	IP20
Noise Emission	65dB(A)@1m
Maximum Operating Altitude	6000m(Derating over 3000m)
Standby consumption	<100W
Cooling	Air Forced
Topology	Transformerless
Display	Touch screen LCD
Communication Interface	RS485/Ethernet

### Certificates and Approvals

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