



# Growatt CP1700 Station-S / CP2000 Station-S / CP2520 Station-S



## 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 continuous adjustable , (0-100%)
- Transformer-less inverter for direct connection to MV transformer
- Integrated with SCADA monitoring system, totally compatible with smart-grid interface
- Intelligent control, entirely meet the requirements of grid
- Provide a turnkey solution, easy installation and maintenance
- Comprehensive protection for overvoltage, islanding, short-circuit, overload,

## Configuration list

- Growatt CP500TL x2
- Cooling system
- Container shelter
- Surge arrester
- Fire extinguisher
- 4000W AC distribution box
- DC distribution cabinet x2



### Input Data

	Growatt CP1700 Station-S	Growatt CP2000 Station-S	Growatt CP2520 Station-S
Max. DC power	1950KW	2300KW	2900KW
Max. DC voltage	1000V	1000V	1000V
DC Voltage Range	600V - 1000V	600V - 1000V	600V - 1000V
MPPT Voltage Range	600V - 900V	600V - 900V	600V - 900V
Rated Input Voltage	700V	700V	700V
Start Voltage/Power	620V/17000W	620V/20000W	620V/25200W
Maximum Input Current	3100A	3640A	4600A
Number of Independent MPPT	2	4	4
Number of DC Inputs	24	32	40

### Output (AC)

	Growatt CP1700 Station-S	Growatt CP2000 Station-S	Growatt CP2520 Station-S
Rated AC Power	1700KW A	2000KW A	2520KW A
Rated AC Voltage	400V	400V	400V
AC Voltage Range	320V - 460V	320V - 460V	320V - 460V
Rated Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Frequency Range	45-55Hz/55-65Hz	45-55Hz/55-65Hz	45-55Hz/55-65Hz
Rated current	2454A	2888A	3640A
Maximum Output Current	2600A	3160A	4000A
Power Factor (cos φ)	0.9lagging – 0.9leading	0.9lagging – 0.9leading	0.9lagging – 0.9leading
Total Harmonic Distortion	<3%(@Pac,r)	<3%(@Pac,r)	<3%(@Pac,r)

### Efficiency

	Growatt CP1700 Station-S	Growatt CP2000 Station-S	Growatt CP2520 Station-S
Maximum Efficiency	98.7%	98.7%	98.7%
Euro Efficiency	98.5%	98.5%	98.5%
MPPT Efficiency	99.9%	99.9%	99.9%

### Protection

	Growatt CP1700 Station-S	Growatt CP2000 Station-S	Growatt CP2520 Station-S
DC Disconnection Device	DC circuit breaker for each input	DC circuit breaker for each input	DC circuit breaker for each input
AC Disconnection Device	AC circuit breaker	AC circuit breaker	AC circuit breaker
DC Overvoltage Protection	Surge arrester type II	Surge arrester type II	Surge arrester type II
AC Overvoltage Protection	Surge arrester type II	Surge arrester type II	Surge arrester type II
Grid monitoring/Management	yes/yes	yes/yes	yes/yes
Ground monitoring	yes	yes	yes
Over Temperature Protection	yes	yes	yes
Insulation monitoring	yes	yes	yes

### General Data

	Growatt CP1700 Station-S	Growatt CP2000 Station-S	Growatt CP2520 Station-S
Dimension (W/H/D)	2991/2438/2591 mm	2991/2438/2591 mm	2991/2438/2591 mm
Weight	4500kg	6000kg	6000kg
Operating Temperature Range	-25...+55°C	-25°C ...+ 55°C	-25°C ...+ 55°C
Relative Humidity	0~95%	0~95%	0~95%
Degree of Protection	IP54	IP54	IP54
Noise Emission	65dB(A)@1m	65dB(A)@1m	65dB(A)@1m
Maximum Operating Altitude	6000m(Derating over 3000m)	6000m(Derating over 3000m)	6000m(Derating over 3000m)
Cooling	Air Forced	Air Forced	Air Forced
Topology	Transformerless	Transformerless	Transformerless
Display	Touch screen LCD	Touch screen LCD	Touch screen LCD
Communication Interface	RS485/ Ether net	RS485/ Ether net	RS485/ Ether net
Inverter Configuration	2*CP850TL-S	4*CP500TL-S	4*CP630TL-S

### Certificates and Approvals

PEA,CE,CGC, LVRT