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# SG 630MX-E



### Grid-friendly

- LVRT/ZVRT
- Active power continuously adjustable (0~100%)
- Reactive power control with power factor adjustment from 0.9 overexcited to 0.9 underexcited



### Efficient

- DC input voltage up to 1000V
- Latest 32 bit DSP chip, advanced digital lock-in technique, more quickly and precisely



### Adaptable

- -30°C~ +55°C continuously operating at rated power
- Continuously and stably working in high altitude environment
- Auxiliary heater (opt.)



### Qualified

- Highly reliable thin-film capacitor, product's lifetime is more than 20 years
- TÜV certified

### Input (DC)

Max. PV input power	713KW
Max. PV input voltage	1000V
Start voltage	635V
Min. operation voltage	615V
Max. PV input current	1160A
MPP voltage range	615~850V
No. of DC inputs	8

### Protection

Input side disconnection device	DC load switch
Output side disconnection device	AC load switch
DC overvoltage protection	Yes
AC overvoltage protection	Yes
Grid monitoring	Yes
Ground fault monitoring	Yes
Over temperature protection	Yes
Insulation monitoring	Yes

### Output (AC)

Nominal AC output power	630kW
Max. AC output apparent power	700kVA
Max. AC output current	1010A
THD	<3% (nominal power)
Nominal AC voltage	400V
AC voltage range	320~460V
Nominal grid frequency	50/60Hz
Grid frequency range	47~52/57~62Hz
Power factor	>0.99@default value at nominal power, adj. 0.9 overexcited~0.9 underexcited
Isolated transformer	No
DC current injection	<0.5% I <sub>n</sub>

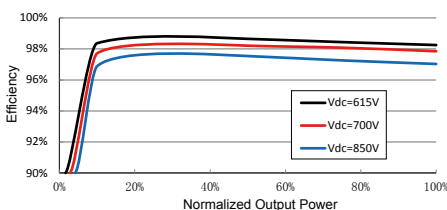
### General Data

Dimensions (W*H*D)	1606*2304*860mm
Weight	1700kg
Operating ambient temperature range	-30~65°C (> 55°C derating)
Night power consumption	<100W
External auxiliary supply voltage	400V
Cooling method	Temperature controlled air-cooling
Ingress protection rating	IP21
Allowable relative humidity range	0~95%, no condensing
Max. operating altitude	6000m (> 3000m derating)
Fresh air consumption	4500 m <sup>3</sup> /h
Display	Colored touch screen
Communication	RS485/Modbus, Ethernet (opt.)

### Efficiency

Max. efficiency	98.60%
European efficiency	98.50%

### Efficiency Curve



### Circuit Diagram

