SUNGROW
www.sungrowpower.com

SG 630MX

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
- Give reactive power compensation to the grid at night according to directive

Efficient

- Max. efficiency at 98.7%
- DC input voltage up to 1000V

Adaptable

- -30℃~+55℃ 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, CGC certified, compliance with BDEW

Input (DC)

Max. PV input power	714kW
Max. PV input voltage	1000V
Start voltage	500V
Min. operation voltage	460V
Max. PV input current	1552A
MPP voltage range	460~850V
Number of MPPTs	1
Number of DC inputs	2 x 4

Output (AC)

Nominal AC output power	630kW
Max. AC output apparent power	700kVA
Max. AC output current	1280A
THD	<3 % (nominal power)
Nominal AC voltage	315V
AC voltage range	252~362V
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% In

General Data

Dimensions (W*H*D)	1606*2034*860mm
Weight	1250kg
Operating ambient temperature range	-30~55℃
Night power consumption	<20W
External auxiliary supply voltage	380V, 3A
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	4500m³/h
Display	Colored touch screen
Communication	RS485/Modbus, Ethernet (opt.)
Qualified	CE, CGC certified, compliance with BDEW

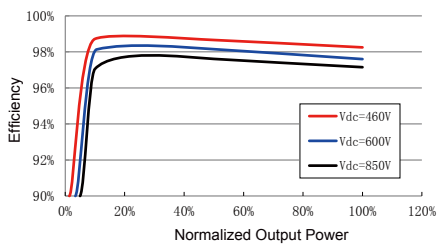
Protection

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

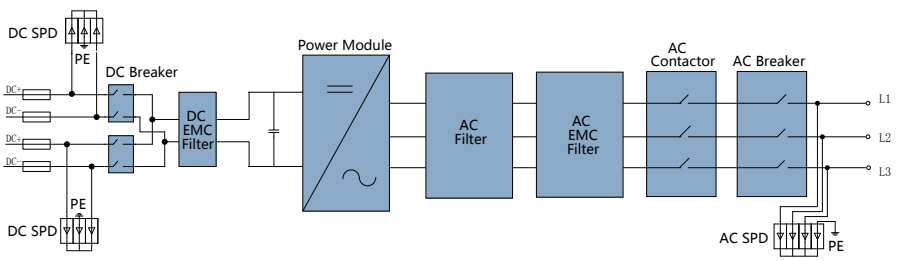
Efficiency

Max. efficiency	98.70%
European efficiency	98.50%

Efficiency Curve



Circuit Diagram



Printed in September 2014 E/W