



Three Phase & Dual MPPT SIRIO 20KTL

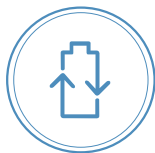
Intelligent, Reliable & Ultimately Efficient

Application: Large-scale Industrial and Commercial Sites



High Efficiency

- ◆ Max efficiency 98.5%, European efficiency 98.0%
- ◆ Four independent MPPT to reduce solar panel power loss
- ◆ ECO mode (patent technology) to improve power generation capacity



Secured Reliability

- ◆ Integrated type II DC/AC surge protection to guarantee security
- ◆ Top-ranking high quality components to guarantee the long product service life



Intelligent Maintenance

- ◆ Small size with aluminum enclosure and easy for installation
- ◆ Intelligent one key self-test for grid connection
- ◆ Intelligent Multiple-string level failure detection for fast fault positioning



Excellent Grid Compatibility

- ◆ Advanced grid impedance algorithm to support parallel operation with multiple devices at large-scale power stations
- ◆ Real-time grid dispatching to meet grid-connection requirements
- ◆ Extremely low current harmonics without affecting grid quality

Model	SIRIO 20.0
Efficiency	
Max. Efficiency	98.20%
European Efficiency	97.70%
Input (PV)	
Max. Input Voltage	1000V
Rated Input Voltage	620V
Max. Input Current	2*25A
Max.Short Circuit Current	60A(2*30A)
Start Input Voltage/ Min. Operating Voltage	25 0V/180V
MPPT Operating Voltage Range	180V -9 50V
MPPT Operating Voltage Range (Full-Load)	480V -80 0V
Max. Number of PV Strings	4(2/2)
No. of MPPTs	2
Output (Grid)	
Rated AC Active Power	20,000W
Max. AC Apparent Power	22,000VA
Max. AC Active Power (PF=1)	22,000W
Max. AC Output Current	3*33.5A
Rated AC Voltage	380V/400V ,3W+N+PE
AC Voltage Range*	277 V- 520 V(adjustable)
Rated Grid Frequency	50Hz/60Hz
Grid Frequency Range**	45Hz -55Hz/55Hz -65Hz
THDI	<3% =Rated Power)
DC Current Injection	< 0.5%In
Power Factor	> 0.99 Rated power (Adjustable 0.8 LG - 0.8 LD)
Protection	
DC switch	Support
Anti - islanding protection	Support
AC overcurrent protection	Support
AC short circuit protection	Support
DC reverse connection	Support
Surge Arrester	DC Type II / AC Type II
Insulation detection	Support
Leakage current protection	Support
General	
Topology	Transformerless
IP Rating	IP65
Night Self Consumption	<1W
Cooling	Natural cooling
Operating Temperature Range	-25°C-60°C
Relative Humidity Range	0-100%
Max. Operating Altitude	4000m(>2000m derating)
Noise	<30dB(Measured at 1m)
Dimensions (W*H*D)	555mm*446mm*270mm
Weight	37Kg
HMI & COM	
Display	Wireless & APP +LED, LCD(Optional)
Communication	WiFi(Optional),RS485,GPRS(Optional)
Certification	
Safety	IEC62109-1, IEC62109-2
EMC	EN 61000-6-2 , EN 61000-6-4
Grid Code	VDE-AR-N 4105 , IEC61727 , IEC62116 , VDE 0126-1-1, RD413/2014
Warranty	5 Years/10 Years (Optional)

Remarks

- The range of output voltage and frequency may vary depending upon different grid codes.
- Specifications are subject to change without advance notice.