



Three Phase & Quad MPPT SIRIO 50KTL

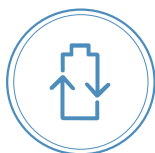
Intelligent, Reliable & Ultimately Efficient

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 50.0
Efficiency	
Max. Efficiency	98.30%
European Efficiency	98.00%
Input (PV)	
Max. Input Voltage	1100V
Rated Input Voltage	620V
Max. Input Current	110A (33A/33A/22A/22A)
Max.Short Circuit Current	140A(42A/42A/28A/28A)
Start Input Voltage/ Min. Operating Voltage	250V/200V
MPPT Operating Voltage Range	200V-960V
MPPT Operating Voltage Range (Full-Load)	540V-850V
Max. Number of PV Strings	10(3/3/2/2)
No. of MPPTs	4
Output (Grid)	
Rated AC Active Power	50,000W
Max. AC Apparent Power	55,000VA
Max. AC Active Power (PF=1)	55,000W
Max. AC Output Current	3*76 A
Rated AC Voltage	380V/400V,3W+N+PE
AC Voltage Range*	277V-520V
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 Leading - 0.8Lagging)
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	Fan cooling
Operating Temperature Range	-25°C-60°C
Relative Humidity Range	0-100%
Max. Operating Altitude	4000m(> 2000m derating)
Noise	<65dB(Measured at 1m)
Dimensions (W*H*D)	855*555*275mm
Weight	65Kg
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.