



FLYLINE SOLAR ONGRID INVERETR

Murickens Group is an ISO 9001:2015 certified and MNRE approved manufacturer of Solar Power generation systems and Electronic items. we always concentrating on this power convert sun energy into electrical energy by developing some of the conversion equipment's like MG Solar Water Heaters, Flyline Solar Inverters, Flyline Solar DC Street Light System, Solar UPS, Solar Lantern etc. and have already installed thousands of fully automatic smaller and bigger solar power units all over India since 2000. As we all know Sun is the Master Power of Energy but nobody is taking pain to think about the entire power of the Sun which has a direct involvement in the day-to-day affairs of every living thing and to be more precise we can convert different kinds of energy of the sunlight or sunrays for our day to day use. we use only the most modern technology available in the world for the manufacturing of solar power plants and arrange Ministry of New Renewable Energy (MNRE) subsidies for the solar products.

A grid-tie inverter converts direct current (DC) generated by Solar Panel into an alternating current (AC) suitable for injecting into an electrical power grid. On Grid inverters with their key advantage of eliminating battery initial and recurring expenses made a fast decision to go for ON GRID inverters. In the new scheme the individual household solar plants will give the KSEB board the excess electricity produced from the Flyline solar plant and in return the KSEB will pay you money. It will be possible by the installation of a new KSEB meter which will be provided by the KSEB, when you apply for the approval of solar plants at home. There will not be any storage in this system so no batteries. In the morning if the electricity produced in the panels are excess the KSEB meter will reverse and take the excess electricity to the line and if the current produced in the panel is less, the meter will provide the current, needed by reversing the meter. Murickens Group providing on site installations and commissioning of these units all over Kerala up to 100 KVA.

INSTALLATION PROCEEDINGS:-

- (1) Apply for Feasibility certificate from concerned electrical section office.
- (2) Installation jobs.
- (3) Apply to Inspection dept. of KSEB
- (4) Commissioning of the Power Plant.

TECHNICAL FEATURES OF FLYLINE FEATURES OF SOLAR ON-GRID INVERTER

	SOFAR 3.3KTL-X	SOFAR 5KTL-X	SOFAR 8.8KTL-X	SOFAR 11KTL-X	SOFAR 12KTL-X
Protection					
Recommended Max. PV input power	3600W	6000W	9600W	12000W	14400W
Max DC power for single MPPT	3550W	4500W	6250W	6200W	6850W
Number of independent MPPT	2				
Number of DC inputs	1 for each MPPT				
Max. Input voltage	1000V				
Start-up input voltage	180V				
Rated input voltage	600V				
MPPT voltage range	160-960V				
Full load DC voltage range	160V-850V	240V-850V	380V-850V	480V-850V	575V-850V
Max. Input current per MPPT	11A/11A				
Rated power	3000W	5000W	8000W	10000W	12000W
Max. AC power	3300VA	5000VA	8800VA	11000VA	13200VA
Max. Output current	4.8A	8.0A	12.8A	15.9A	19.1A
Nominal grid voltage	3/N/PE, 220/380Vac, 230/400Vac, 240/415Vac				
Grid voltage range	310Vac-480Vac (According to local standard)				
Nominal frequency	50Hz/60Hz				
Grid frequency range	4! Hz-55Hz/54Hz-66Hz (According to local standard)				
Active power adjustable range	0~100%				
THDi	< 3%				
Power factor	1 (adjustable +/-0.8)				
Power limit export	Zero export or adjustable power limit export				
Max efficiency	98.0%	98.0%	98.3%	98.3%	98.3%
European weighted efficiency	97.5%	97.5%	98.0%	98.0%	98.0%
Self-consumption at night	<1W				
MPPT efficiency	>99.9%				
Protection					
DC reverse polarity protection	Yes				
DC switch	Yes				
Safety protection	Anti islanding, RCMU, Ground fault monitoring				
ARPC	Anti reverse power controller(optional)				
Communication					
Power management unit	According to certification and request				
Standard communication mode	RS485, Wifi/Ethernet/GPRS(optional), SD card				
Operation data storage	25 years				
General Date					
Ambient temperature range	-25°C~+60°C				
Max. Operating altitude	2000m				
Weight	21kg	21kg	22kg	22kg	22kg
Dimension	457*452*202mm				
Display	LCD display				
Warranty	5 years/ 7 years/ 10 years				
Standard					
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3, EN 61000-3-12, EN 61000-3-11				
Safety standards	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30), IEC60255				
Grid standards	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN50438/EN50549, G83/G59, Rd1699, UTE C15-712-1, EN50530, NB/T32004				



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Our YouTube channels: - <https://www.youtube.com/c/solarpowermurickensgroup>
<https://www.youtube.com/user/murickens>

Under the name **MG** and **FLYLINE**, MURICKENS GROUP is a company with experience and credibility in the manufacture and marketing of electronic and electrical products.



MG Servo Voltage Stabilizer, Solar Water Heater, Deep Freezer, Mobile Mortuary, Mortuary Chamber etc.



Solar On Grid , Off Grid & Battery Less Grid Compensating Inverter, Solar Street Light Garden Light, Online & Off line UPS, Solar Panel, Solar Charging Controller,110V Step Down Stabilizer, Solar Battery, Modular Voltage Protector .