

# GRID TIE INVERTERS

## Perfect Blend of Safety and Efficiency

The NXi range from Luminous is available in single and three phase configurations. With best-in-class reliability and compliance to safety standards, the inverters are available in capacities from 3kW to 110 kW.



>99%  
Efficiency



8 Years  
Warranty



Remote  
Monitoring



**MPPT** **Maximum Power Point Tracking**  
MPPT charge controllers are more efficient compared to PWM charge controllers as they convert 30% more power from solar panels.



**Anti-Islanding Protection**  
Disconnects the inverter from grid during power failure preventing any electrical shock to the linemen at work.



**IV Curve Scanning**  
Allows IV curve scanning for each panel string & identify fault or abnormality (25kW & above models)



**String Level Monitoring**  
Allows monitoring at each individual string level to ensure consistent output of system (25kW & above models)



**Night SVG Function**  
Helps in providing sufficient reactive power required by grid & produces 60% of reactive power of its rated max output (50kW & above models)

## Three Phase

MODEL	Nxi 325	Nxi 330	Nxi 350	Nxi 3600	Nxi 380	Nxi 3100	Nxi 3110
Rated output power (kW)	25	30	50	60	80	100	110
Input DC							
Max. DC Input Power (kW)	37.5	45	75	90	120	150	165
Max. DC Input Voltage (V)	1100						
Start-up Voltage [V]	180		195		180		
MPPT Voltage range (V)	200-1000			180 - 1000		160 - 1000	
Max input current per MPPT (A)	32A/32A/32A		5*32A	6*32A	3*40A+3*32A	4*40A+4*32A	
Number of MPPT	3		5	6		8	
Max Input Strings Number	6		10	12		16	
Output (AC)							
Rated output power (kW)	25	30	50	60	80	100	110
Max. output power [kW]	27.5	33	55	66	88	110	121
Max. output Current [A]	27.5	33	83.3	100	133.7	167.1	183.8
Grid Frequency range (Hz)	50/60 Hz		47-52 or 57-62		50/60 Hz		
Power Factor (at rated output power)	0.8 ...1... 0.8						
Total harmonic distortion [THDi]	<3%			<2%		<3%	
Feed-in phase/connection phase	Three Phase						
Efficiency							
Max. Efficiency	98.5%		98.7%		98.5%		
MPPT Efficiency	>99.5%				99.5%		
Protection							
Inbuilt Protections	DC Reverse Polarity Protection, Short Circuit Protection, O/P Over Current Protection, O/P Over voltage protection, Insulation resistance monitoring, Residual current detection, surge protection, Islanding Protection, Temperature Protection, Integrated DC Switch (optional)						
Interface							
DC Connection	MC4 Connectors						
Display	LCD, 2x20 Z						
Datalogger & Communication	RS485/GSM/Wifi* (Optional)						
General Data							
Topology	Transformerless						
Consumption @ night	< 1 W				< 2 W		
Operating Temperature Range	-25°C to 60°C						
Cooling Method	Intelligent redundant fan cooling						
Relative Humidity	0 to 100%						
Max. Operational Altitude	4000m						
Noise [dBA]	<30 dBA		<60 dBA		<65 dBA		
Designed Lifetime	> 20 years						
Ingress Protection	IP66						
Dimensions (W*H*D) (mm)	647W*629H*252D		630W*700H*357D		1065W*587H*363D	1183W*585H*363D	
Net weight (Kg)	37		54.5		79.5	93	
Standards							
Safety/EMC	BIS Certified as per IS/IEC standards						

For more information



[youtube/user/myluminousindia](https://youtube/user/myluminousindia)



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