

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)

Solar Estimation Chart

Solution		No. of MPPT	Panel Connection Combination per MPPT (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
GTI	PV Panel Watt			
NXI 3kW	550Wp x 8 No.s	1	8 (S)	480
NXI 4kW	550Wp x 10 No.s	2	10 (S)	600
NXI 5kW	550Wp x 12 No.s	2	12 (S)	720
NXI 6kW	550Wp x 16 No.s	2	16 (S)	960
NXI 8kW	550Wp x 20 No.s	2	20 (S)	1200
NXI 10kW	550Wp x 26 No.s	2	26 (S)	1560

Grid Tie System



Single Phase

Model Name	Nxi 130	Nxi 140	Nxi 150
Rated output power (kW)	3	4	5
Input DC			
Max. DC Input Power (kW)	4.5	6.0	7.5
Max. DC Input Voltage (V)	600	550	
Start-up Voltage [V]	90	100	
MPPT Voltage range (V)	80 - 500	90 - 550	
Max input current per MPPT (A)	14A	16A/16A	
Number of MPPT a	1	2	
Max Input Strings Number	1	2	
Output (AC)			
Rated output power (kW)	3	4	5
Max. output power [kW]	3.3	4.4	5
Max. output Current [A]	15.7	21	25
Grid Frequency range (Hz)	50/60Hz		
Power Factor (at rated output power)	0.8 ...1... 0.8		
Total harmonic distortion [THDi]	< 1.5%		
Feed-in phase/connection phase	Single Phase		
Efficiency			
Max. Efficiency	>97.2	>97.6	
MPPT Efficiency	>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, slandering Protection, Temperature Protection		
Interface			
DC Connection	MC4 Connectors		
Display	LCD 2X 20 Z	LED + Bluetooth App	
Datalogger & Communication	RS485/GSM/Wifi* (Optional)		
General Data			
Topology	Transformerless		
Consumption @ night	< 1 W		
Operating Temperature Range	-25°C to 60°C		
Cooling Method	Natural Convection		
Relative Humidity	0 - 100 %		
Max. Operational Altitude	4000m		
Noise [dBA]	<30dBA		
Designed Lifetime	> 20 years		
Ingress Protection	IP66		
Dimensions (W*H*D) (mm)	310W*373H*160D	310W *543H *160D	
Net weight (Kg)	7.7	8.9	
Standards			
Safety/EMC	BIS Certified as per IS/IEC standards		

* Check availability of GSM or wifi dongle before ordering.

Technical specifications are subject to change without prior notice.

Three Phase

MODEL	Nxi 305	Nxi 306	Nxi 308	Nxi 310	Nxi 312	Nxi 315	Nxi 320
Rated output power (kW)	5	6	8	10	12	15	20
Input DC							
Max. DC Input Power (kW)	7.5	9.0	12	15	18	22.5	30
Max. DC Input Voltage (V)	1100						
Start-up Voltage [V]	180						
MPPT Voltage range (V)	160 - 1000						
Max input current per MPPT (A)	16A/16A				32A/32A		
Number of MPPT	2						
Max Input Strings Number	2				4		
Output (AC)							
Rated output power (kW)	5	6	8	10	12	15	20
Max. output power [kW]	5.5	6.6	8.8	11	13.2	16.5	22
Max. output Current [A]	8.4	10	13.4	16.7	20.1	25.1	33.3
Grid Frequency range (Hz)	50/60 Hz						
Power Factor (at rated output power)	0.8 ...1... 0.8						
Total harmonic distortion [THDi]	<2%						
Feed-in phase/connection phase	Three Phase						
Efficiency							
Max. Efficiency	98.30%				98.60%		
MPPT Efficiency	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 2X 20Z						
Datalogger & Communication	RS485/GSM/Wifi* (Optional)						
General Data							
Topology	Transformerless						
Consumption @ night	< 1 W						
Operating Temperature Range	-25°C to 60°C						
Cooling Method	Natural Convection				Intelligent Redundant Fan Colling		
Relative Humidity	0 to 100%						
Max. Operational Altitude	4000m						
Noise [dBA]	<30 dBA						
Designed Lifetime	> 20 years						
Ingress Protection	IP66						
Dimensions (W*H*D) (mm)	310W*563H*129D				310W*608H*219D		
Net weight (Kg)	17.8				18.8		20
Standards							
Safety/EMC	BIS Certified as per IS/IEC standards						

* Check availability of GSM or wifi dongle before ordering.

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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



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LUMINOUS Luminous India
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