LUMINOUS

GRID TIE INVERTERS

Safe and Efficient

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 1kW to 50 kW.

5 Years Warranty

> 97% Efficiency

Connectivity Options

MPPT

Maximum Power Point Tracking

MPPTs to extract up to 30% more power from the panels, minimizing impact of shading and increasing efficiency.

IP65 Protection

Designed to work in tough weather conditions. Flawless operation despite dust, rain or extreme temperature variations

Remote Monitoring

Multiple modes of connectivity (GSM/Wi-fi) for remote monitoring enables proactive maintenance.

Anti- Islanding Protection

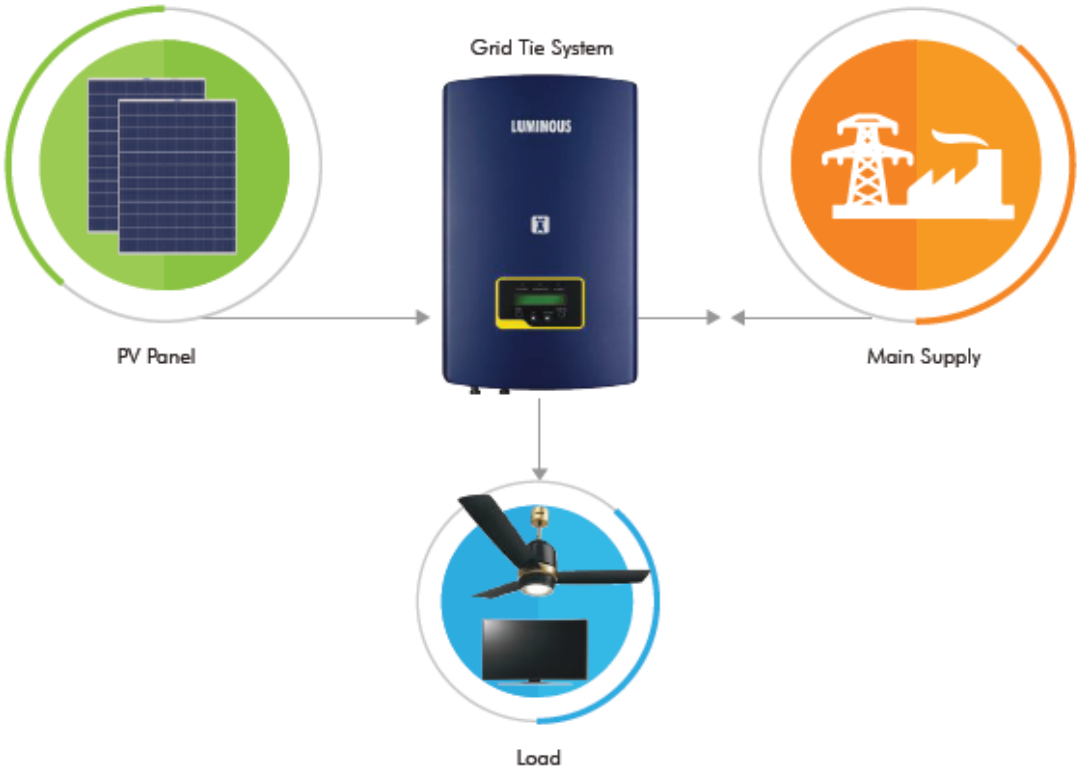
Disconnects the inverter from grid during power failure preventing any electrical shock to the linemen at work.

MNRE & IEC Compliance

Complies with MNRE recommended standards IEC - 61683, IEC – 60068, IEC – 61000, IEC – 61727, IEC – 62116

Solar Estimation Chart

Solution		No. of MPPT	Panel Connection Combination per MPPT (Series-Parallel)	Approx. Roof Top Area Required (Sq. ft.)
Solar UPS	PV Panel Watt			
NXI 1kW	325Wp x 3 No.s	1	3 (S)	100
NXI 2kW	325Wp x 6 No.s	1	6 (S)	200
NXI 3kW	325Wp x 10 No.s	1	10 (S)	300
NXI 4kW	325Wp x 12 No.s	2	6 (S)	400
NXI 5kW	325Wp x 16 No.s	2	8 (S)	500
NXI 6kW	325Wp x 20 No.s	2	10 (S)	600
NXI 10kW	325Wp x 32 No.s	2	16 (S)	1000
NXI 15kW	325Wp x 48 No.s	2	12 (S) 2 (P)	1500
NXI 20kW	325Wp x 64 No.s	4	16 (S)	2000
NXI 25kW	325Wp x 84 No.s	4	21 (S)	2500
NXI 50kW	325Wp x 168 No.s	4	21 (S) 2 (P)	5000



Solar

Single Phase

MODEL	Nxi 110	Nxi 120	Nxi 130	Nxi 140	Nxi 150
Input DC					
Max. DC Input Power (kW)	1.2	2.3	3.5	4.6	5.8
Max. DC Input Voltage (V)	600				
Start-up Voltage [V]	60	90		120	
MPPT Voltage range (V)	50-500	80 - 500		100 - 500	
Max input current per MPPT (A)	11A			11A+11A	
Number of MPPT	1			2	
Max Input Strings Number	1			2	
Output (AC)					
Rated output power (kW)	1	2	3	4	5
Max. output power [kW]	1.1	2.2	3.3	4.4	5
Max. output Current [A]	5.2	10.5	15.7	21	25
Grid voltage range (V)	160-285				
Grid Frequency range (Hz)	50/60 Hz				
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%		97.5%	> 98.1%	
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				
Interface					
DC Connection	MC4 Connectors				
Display	LCD 2X 20 Z				
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 Convention				
Relative Humidity	0 - 100 %				
Max. Operational Altitude	4000m				
Noise [dBA]	<20dBA		<30dba	<30 dba	
Designed Lifetime	> 20 years				
Ingress Protection	IP65				
Dimensions (W*H*D) [mm]	310W*373H*160D(mm)			310W *543H *160D	
Net weight (Kg)	7.4		7.7	11.5	
Standards					
Safety/EMC	IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3				

* Check availablity of GSM or wifi dongle before ordering.

Three Phase

MODEL	Nxi 360	Nxi 310	Nxi 315	Nxi 320	Nxi 325	Nxi 350
Input DC						
Max. DC Input Power (kW)	6.9	11.5	16.5	23	28	55
Max. DC Input Voltage (V)	1000					1100
Start-up Voltage [V]	250			350		200
MPPT Voltage range (V)	200 - 800					200 - 1000
Max input current per MPPT (A)	15A + 15A	18A+18A		18A+18A+18A +18A		28.5A+28.5A+28.5A+28.5A
Number of MPPT	2			4		4
Max Input Strings Number	2	4		8		12
Output (AC)						
Rated output power (kW)	6	10	15	20	25	50
Max. output power [kW]	6.6	11	15	22	27.5	55
Max. output Current [A]	10	16.7	25	33.3	41.7	83.3
Grid voltage range (V)	313 - 470			304-460		
Grid Frequency range (Hz)	50/60 Hz					
Power Factor (at rated output power)	0.8 ...1... 0.8					
Total harmonic distortion [THDi]	<3%					
Feed-in phase/connection phase	Three Phase					
Efficiency						
Max. Efficiency	98.20%		98.30%	98.60%		98.80%
MPPT Efficiency	99.50%			99.90%		
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					
Interface						
DC Connection	MC4 Connectors					
Display	LCD 2X 20Z		7" Color 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 Convention			Intelligent redundant fan cooling		
Relative Humidity	0 to 100%					
Max. Operational Altitude	4000m					
Noise [dBA]	<30 dBA					
Designed Lifetime	> 20 years					
Ingress Protection	IP65					
Dimensions (W*H*D) [mm]	430W*613H*269D		530W*700H*356.5D		630W *700H *357D	
Net weight (Kg)	29		30	57.2	58.2	63
Standards						
Safety/EMC	EN61000 - 6 - 1: 2007, EN61000 - 6 - 3: 2007, IEC 62109-1, 62109-2: AS3100					

* Check availability of GSM or wifi dongle before ordering.
Technical specifications are subject to change without prior notice.

Solar