

# SOLAR ON GRID INVERTER

# selec®



3 to 10kW  
3Ø



4 to 5.4kW  
1Ø



4 to 6kW  
1Ø



1 to 3.4kW  
1Ø

## TRULY INDIAN

- Technology
- Manufacturing

Indian Cloud Server  
DCR Ready

## Certification:

BIS



BEE



IEC



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# Single Phase Solar On Grid Inverter

SYSTEM	SINGLE PHASE					
	1kW	1.5kW	2kW	2.5kW	3kW	3.4kW
RATINGS						
MODEL	GTI001XX1PN231	GTI001X51PN231	GTI002XX1PN231	GTI002X51PN231	GTI003XX1PN231	GTI003X41PN231
<b>INPUT SPECIFICATIONS (DC)</b>						
MAX. ALLOWABLE PV POWER (kW)	1.5	2.25	3	3.75	4.5	5.1
NOMINAL PV VOLTAGE (V)	360					
MAX. DC INPUT VOLTAGE (V)	550					
START-UP VOLTAGE (V)	50					
OPERATING RANGE (V)	50-550					
MPPT VOLTAGE RANGE (V)	50-550					
MAX INPUT CURRENT PER MPPT (A)	17					
NUMBER OF MPPT	1					
STRING PER MPPT TRACKER	1					
MAXIMUM PV SHORT CIRCUIT CURRENT PER MPPT (ISC)	20					
<b>OUTPUT SPECIFICATIONS (AC)</b>						
RATED OUTPUT POWER (kW)	1	1.5	2	2.5	3	3.4
MAX. AC POWER (kVA)	1	1.5	2	2.5	3	3.4
NOMINAL AC CURRENT, RMS (A)	4.16	6.25	8.33	10.41	12.5	14.2
MAX. OUTPUT CURRENT (A)	4.76	7.14	9.25	11.36	14.28	15.71
GRID VOLTAGE RANGE (V)	90-290V					
GRID FREQUENCY RANGE (HZ)	50 (45-55 Hz)					
POWER FACTOR (AT RATED OUTPUT POWER)	>0.99 (adjustable from 0.8 leading to 0.8 lagging)					
TOTAL HARMONIC DISTORTION	<3% at rated load					
FEED- IN PHASE / CONNECTION PHASE	Single phase					
<b>EFFICIENCY</b>						
MAX. EFFICIENCY (%)	96.43	96.43	96.90	96.90	96.86	96.86
MPPT EFFICIENCY (%)	99.94	99.94	99.96	99.96	99.97	99.97
EURO EFFICIENCY (%)	94.90	94.90	95.59	95.59	96.48	96.48
<b>PROTECTIONS</b>						
SURGE PROTECTION	Type III SPD on AC and DC Side					
OTHER PROTECTION	DC reverse polarity protection, Short circuit protection, Over current protection, Over voltage / Under voltage protection, Over frequency / Under frequency, Insulation resistance, Monitoring, Residual current detection, Surge protection, Anti-Islanding protection, Temperature protection					
INTEGRATED DC SWITCH	Optional					
INTEGRATED AFCI (DC ARC- FAULT CIRCUIT PROTECTION)	Optional					
<b>INTERFACE</b>						
DC CONNECTION	MC4 Connectors					
DISPLAY	LCD with LED indication					
DATALOGGER & COMMUNICATION	RS485 (Default) / Wi-Fi / GSM (to be ordered along with inverter separately)					
TOPOLOGY	Transformerless					
CONSUMPTION @ NIGHT (W)	<0.5 W					
OPERATING TEMPERATURE RANGE	-25 °C to +60 °C					
COOLING METHOD	Natural convection					
RELATIVE HUMIDITY	0 to 100% non-condensing					
MAX. OPERATIONAL ALTITUDE	4000m					
NOISE (dBA)	<30 dBA					
DESIGNED LIFETIME	>20 years					
WARRANTY	7 Years + 3 Years additional if product is registered on app within 15 days of commissioning					
INGRESS PROTECTION	IP65					
DIMENSIONS IN MM (W*H*D)	275*313*131					
NET WEIGHT (KG)	5.2					
MECHANICAL INTEGRATION	Wall mountable					
CERTIFICATIONS ( BIS )	IS 16221-1/2, IS 16169					
SAFETY	IS 16169: 2014 / IEC 62116, IS 16221 (part 2): 2015 / IEC 62109-2: 2011					
ENVIRONMENTAL	IEC 60529					
ELECTRICAL	IEC 62891, IEC 61000					

+ Allowable PV power can go upto 50% of max. DC input power

**SELEC**  
solar In-house remote monitoring application

# Single Phase Solar On Grid Inverter

SYSTEM	SINGLE PHASE				
RATINGS	4kW	4.4kW	5kW	5.4kW	6kW
MODEL	GTI004XX1PN341	GTI004X4WLM1PN341	GTI005XX1PN341	GTI005X41PN341	GTI006WLM1PW2
<b>INPUT SPECIFICATIONS (DC)</b>					
MAX. ALLOWABLE PV POWER (kW)	6	6.6	7.5	7.8	9
NOMINAL PV VOLTAGE (V)	360				
MAX. DC INPUT VOLTAGE (V)	550				
START-UP VOLTAGE (V)	50				
OPERATING RANGE (V)	50-550				65-550
MPPT VOLTAGE RANGE (V)	50-550				65-550
MAX INPUT CURRENT PER MPPT (A)	20				17/17
NUMBER OF MPPT	1				1/1
STRING PER MPPT TRACKER	1				1/1
MAXIMUM PV SHORT CIRCUIT CURRENT PER MPPT (ISC)	30				20/20
<b>OUTPUT SPECIFICATIONS (AC)</b>					
RATED OUTPUT POWER (kW)	4	4.4	5	5.4	6
MAX. AC POWER (kVA)	4	4.4	5	5.4	6
NOMINAL AC CURRENT, RMS (A)	16.66	18.4	20.8	22.5	25
MAX. OUTPUT CURRENT (A)	19.04	20	23.8	24.76	27.2
GRID VOLTAGE RANGE (V)	90-290V				
GRID FREQUENCY RANGE (HZ)	50 (45-55 Hz)				
POWER FACTOR (AT RATED OUTPUT POWER)	>0.99 (Adjustable from 0.8 leading to 0.8 lagging)				
TOTAL HARMONIC DISTORTION	<3% at rated load				
FEED- IN PHASE / CONNECTION PHASE	Single phase				
<b>EFFICIENCY</b>					
MAX. EFFICIENCY (%)	96.95				97.56
MPPT EFFICIENCY (%)	>99				99.97
EURO EFFICIENCY (%)	96				97.33
<b>PROTECTIONS</b>					
SURGE PROTECTION	Type II SPD on AC and DC side				
OTHER PROTECTION	DC reverse polarity protection, Short circuit protection, Over current protection, Over voltage / Under voltage protection, Over frequency / Under frequency, Insulation resistance, Monitoring, Residual current detection, Surge protection, Anti-Islanding protection, Temperature protection				
INTEGRATED DC SWITCH	Optional				
INTEGRATED AFCI (DC ARC- FAULT CIRCUIT PROTECTION)	Optional				
<b>INTERFACE</b>					
DC CONNECTION	MC4 Connectors				
DISPLAY	LCD with LED indication				
DATALOGGER & COMMUNICATION	RS485 (Default) / Wi-Fi / GSM (To be ordered along with inverter seperately)				
TOPOLOGY	Transformerless				
CONSUMPTION @ NIGHT (W)	<1W				
OPERATING TEMPERATURE RANGE	-25 °C to +60 °C				
COOLING METHOD	Natural convection				
RELATIVE HUMIDITY	0 to 100% non-condensing				
MAX. OPERATIONAL ALTITUDE	4000m				
NOISE (dBA)	<30 dBA				
DESIGNED LIFETIME	>20 years				
WARRANTY	7 Years + 3 Years additional if product is registered on app within 15 days of commissioning				
INGRESS PROTECTION	IP65				
DIMENSIONS IN MM (W*H*D)	290*354*153				375*394*156
NET WEIGHT (KG)	7.65				11
MECHANICAL INTEGRATION	Wall mountable				
CERTIFICATIONS ( BIS )	IS 16221-1/2, IS 16169				
SAFETY	IS 16169: 2014 / IEC 62116, IS 16221 (part 2): 2015 / IEC 62109-2: 2011				
ENVIRONMENTAL	IEC 60529				
ELECTRICAL	IEC 62891, IEC 61000				

+ Allowable PV power can go upto 50% of max. DC input power

# Three Phase Solar On Grid Inverter

SYSTEM	THREE PHASE						
	3kW	4kW	5kW	6kW	7kW	8kW	10kW
RATINGS	3kW	4kW	5kW	6kW	7kW	8kW	10kW
MODEL	GTI003XX3PN301 / GTI003XX3PN302	GTI004XX3PN301 / GTI004XX3PN302	GTI005XX3PN301 / GTI005XX3PN302	GTI006XX3PN301 / GTI006XX3PN302	GTI007XX3PN301 / GTI007XX3PN302	GTI008XX3PN301 / GTI008XX3PN302	GTI010XX3PN301 / GTI010XX3PN302
<b>INPUT SPECIFICATIONS (DC)</b>							
MAX. ALLOWABLE PV POWER (kW)	3	4	5	6	7	8	10
MAX. DC INPUT POWER (kW)	3.9 / 4.5	5.2 / 6	6.5 / 7.5	7.8 / 9	9.1 / 10.5	10.4 / 12	13 / 15
NOMINAL PV VOLTAGE (V)	600						
MAX. DC INPUT VOLTAGE (V)	1100						
START-UP VOLTAGE (V)	140						
OPERATING RANGE (V)	120-1000						
MPPT VOLTAGE RANGE (V)	120-1000						
MAX INPUT CURRENT PER MPPT (A)	20 / 20+20						20 / 20+20
NUMBER OF MPPT	1 / 2						1/2
STRING PER MPPT TRACKER	1						1
MAXIMUM PV SHORT CIRCUIT CURRENT PER MPPT (ISC)	30 / 30+30						30 / 30+30
<b>OUTPUT SPECIFICATIONS (AC)</b>							
RATED OUTPUT POWER (kW)	3	4	5	6	7	8	10
MAX. AC POWER (kVA)	3.3	4.4	5.5	6.6	7.7	8.8	11
NOMINAL AC CURRENT, RMS (A)	4.17	5.55	6.94	8.33	9.72	11.11	13.9
MAX. OUTPUT CURRENT (A)	4.8	6.34	7.93	9.52	11.11	12.69	15.87
GRID VOLTAGE RANGE (V)	156 - 502.29 V (L-L) , 90V-290 (L-N)						
GRID FREQUENCY RANGE (HZ)	50/60 (optional)						
POWER FACTOR (AT RATED OUTPUT POWER)	0.8 Leading ~ 0.8 Lagging						
TOTAL HARMONIC DISTORTION (I)	<3%						
FEED- IN PHASE / CONNECTION PHASE	3 phase, N, PE						
<b>EFFICIENCY</b>							
MAX. EFFICIENCY (%)	98.3						
MPPT EFFICIENCY (%)	>99						
EURO EFFICIENCY (%)	97.5						
<b>PROTECTIONS</b>							
SURGE PROTECTION	Type II SPD on AC and DC side						
OTHER PROTECTION	DC reverse polarity protection, Short circuit protection, Over current protection, Over voltage / Under voltage protection, Over frequency / Under frequency, Insulation resistance, Monitoring, Residual current detection, Surge protection, Anti-Islanding protection, Temperature protection						
INTEGRATED DC SWITCH	Yes						
INTEGRATED AFCI (DC ARC-FAULT CIRCUIT PROTECTION)	Optional						
<b>INTERFACE</b>							
DC CONNECTION	MC4						
DISPLAY	LCD with LED indications						
DATALOGGER & COMMUNICATION	RS485 (Default) / WIFI or GSM (Optional)						
TOPOLOGY	Transformerless						
CONSUMPTION @ NIGHT (W)	<1W						
OPERATING TEMPERATURE RANGE	-25 °C to +60 °C						
COOLING METHOD	Natural convection						
RELATIVE HUMIDITY	0 to 100% non-condensing						
MAX. OPERATIONAL ALTITUDE	4000m						
NOISE (dBA)	<25 dBA						
DESIGNED LIFETIME	<20 years						
WARRANTY	5 Years + 2 years additional if product is registered on app within 15 days of commissioning						
INGRESS PROTECTION	IP65						
DIMENSIONS IN MM (W*H*D)	283*463*178						
NET WEIGHT (KG)	10.5						
MECHANICAL INTEGRATION	Wall mountable						
SAFETY	IS 16169: 2014 / IEC 62116, IS 16221 (part 2): 2015 / IEC 62109-2: 2011						
ENVIRONMENTAL	IEC 60529						
ELECTRICAL	IEC 62891, IEC 61000						

-1 code : Single MPPT, -2 code : Dual MPPT

Subsidiaries : [Selec GmbH](#) | [Selec USA](#) | [Selec Australia](#)

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