

selec[®]

SOLAR ON GRID INVERTER



3 to 10kW
3Ø



4 to 5.4kW
1Ø



4 to 6kW
1Ø



1 to 3.6kW
1Ø

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now empowering
every home

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- Manufacturing

Indian Cloud Server

DCR Ready

Certification:

BIS



BEE



IEC




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Single Phase Solar On Grid Inverter

SYSTEM	SINGLE PHASE							
RATINGS	1kW	1.5kW	2kW	2.5kW	3kW	3.3kW	3.4kW	3.6kW
MODEL-1	---	---	---	---	---	---	GTI003X41PN243	GTI003X61PN243
MODEL-2	GTI001XX1PN243-X	GTI001X51PN243-X	GTI002XX1PN243-X	GTI002X51PN243-X	GTI003XX1PN243-X	GTI003X31PN243-X	GTI003X41PN243-X	GTI003X61PN243-X
INPUT SPECIFICATIONS (DC)								
MAX. ALLOWABLE PV POWER (kW)	1.5	2.25	3	3.75	4.5	4.95	5.1	5.4
NOMINAL PV VOLTAGE (V)	360							
MAX. DC INPUT VOLTAGE (V)	550							
START-UP VOLTAGE (V)	45							
OPERATING RANGE (V)	45-550							
MPPT VOLTAGE RANGE (V)	45-500							
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							
OUTPUT SPECIFICATIONS (AC)								
RATED OUTPUT POWER (kW)	1.1	1.5	2	2.5	3	3.3	3.4	3.6
MAX. AC POWER (kVA)	1.1	1.5	2	2.5	3	3.3	3.4	3.6
NOMINAL AC CURRENT, RMS (A)	4.16	6.25	8.33	10.41	12.50	13.75	14.16	15
MAX. OUTPUT CURRENT (A)	4.76	7.14	9.52	11.90	14.28	15.71	15.71	15.71
GRID VOLTAGE RANGE (V)	216-264							
GRID FREQUENCY RANGE (HZ)	50							
POWER FACTOR (AT RATED OUTPUT POWER)	>0.99 (Adjustable from 0.8 leading to 0.8 lagging)							
TOTAL HARMONIC DISTORTION (THDi)	<3% at rated load							
FEED- IN PHASE / CONNECTION PHASE	Single phase							
EFFICIENCY								
MAX. EFFICIENCY (%)	96.44							
MPPT EFFICIENCY (%)	>99.9							
EURO EFFICIENCY (%)	96							
PROTECTIONS								
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							
INTERFACE								
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							
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							
DESIGN 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)	256*302*142							
NET WEIGHT (KG)	4.4							
MECHANICAL INTEGRATION	Wall mountable							
CERTIFICATIONS (BIS)	IS 16221-1/2, IS 16169							
SAFETY	IS 16169 : 2019 / IEC 62116 : 2014, IS 16221 (part 2) : 2015 / IEC 62109-2 : 2011							
ENVIRONMENTAL	IEC 60529							
ELECTRICAL	IS 17980 : 2022 / IEC 62891 : 2020, IEC 61000							

+ Above mentioned model numbers are code with DC switch. For without DC switch, Please mention the code with an addition of - X at the end of the code. For eg: For 3.4kW without DC switch the code will be GTI003X41PN243-X

 In-house remote monitoring application

Single Phase Solar On Grid Inverter

SYSTEM	SINGLE PHASE					
RATINGS	4kW	4.4kW	5kW	5.4kW	6kW	6kW
MODEL	GTI004XX1PN341	GTI004X41PN341	GTI005XX1PN341	GTI005X41PN341	GTI006XX1PN341	GTI006WLM1PW
INPUT SPECIFICATIONS (DC)						
MAX. ALLOWABLE PV POWER (kW)	6	6.6	7.5	8.1	9	
NOMINAL PV VOLTAGE (V)	360					
MAX. DC INPUT VOLTAGE (V)	550				600	550
START-UP VOLTAGE (V)	50					65
OPERATING RANGE (V)	50-550				50-600	65-550
MPPT VOLTAGE RANGE (V)	50-550				50-600	65-550
MAX INPUT CURRENT PER MPPT (A)	20					17/17
NUMBER OF MPPT	1					2
STRING PER MPPT TRACKER	1					1/1
MAXIMUM PV SHORT CIRCUIT CURRENT PER MPPT (ISC)	30					20/20
OUTPUT SPECIFICATIONS (AC)						
RATED OUTPUT POWER (kW)	4	4.4	5	5.4	6	6
MAX. AC POWER (kVA)	4	4.4	5	5.4	6	6
NOMINAL AC CURRENT, RMS (A)	16.66	18.4	20.8	22.5	25	25
MAX. OUTPUT CURRENT (A)	19.04	20	23.8	24.76	28.57	27.2
GRID VOLTAGE RANGE (V)	216-264					
GRID FREQUENCY RANGE (HZ)	50					
POWER FACTOR (AT RATED OUTPUT POWER)	>0.99 (Adjustable from 0.8 leading to 0.8 lagging)					
TOTAL HARMONIC DISTORTION (THDi)	<3% at rated load					
FEED- IN PHASE / CONNECTION PHASE	Single phase					
EFFICIENCY						
MAX. EFFICIENCY (%)	96.95					97.56
MPPT EFFICIENCY (%)	>99					99.97
EURO EFFICIENCY (%)	96					97.33
PROTECTIONS						
SURGE PROTECTION	Type II SPD on AC and DC side					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					
INTERFACE						
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)	<1					
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					
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				290*425*155	375*394*156
NET WEIGHT (KG)	7.65				7.8	11
MECHANICAL INTEGRATION	Wall mountable					
CERTIFICATIONS (BIS)	IS 16221-1/2, IS 16169					
SAFETY	IS 16169 : 2019 / IEC 62116 : 2014, IS 16221 (part 2) : 2015 / IEC 62109-2 : 2011					IS 16169 : 2014 / IEC 62116, IS 16221 (part 2) : 2015 / IEC 62109-2 : 2011
ENVIRONMENTAL	IEC 60529					
ELECTRICAL	IS 17980 : 2022 / IEC 62891 : 2020, IEC 61000					IEC 62891 : 2020, IEC 61000

+ Above mentioned model numbers are code with DC switch. For without DC switch, Please mention the code with an addition of - X at the end of the code. For eg: For 5.4kW without DC switch the code will be GTI005X41PN341-X

SYSTEM	THREE PHASE				
RATINGS	3kW	5kW	6kW	8kW	10kW
MODEL	GTI0033PN401	GTI0053PN401 / GTI0053PN402	GTI0063PN401 / GTI0063PN402	GTI0083PN401 / GTI0083PN402	GTI0103PN401 / GTI0103PN402
INPUT SPECIFICATIONS (DC)					
MAX. ALLOWABLE PV POWER (kW)	4.5	7.5	9	12	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)	22	22 / 22+22			
NUMBER OF MPPT	1	1 / 2			
STRING PER MPPT TRACKER	1				
MAXIMUM PV SHORT CIRCUIT CURRENT PER MPPT (ISC)	30 / 30+30				
OUTPUT SPECIFICATIONS (AC)					
RATED OUTPUT POWER (kW)	3	5	6	8	10
MAX. AC POWER (kVA)	3.3	5.5	6.6	8.8	11
NOMINAL AC CURRENT, RMS (A)	4.16	6.94	8.33	11.11	13.88
MAX. OUTPUT CURRENT (A)	4.8	8	9.66	12.88	16
GRID VOLTAGE RANGE (V)	216-264 / 374-457				
GRID FREQUENCY RANGE (HZ)	50				
POWER FACTOR (AT RATED OUTPUT POWER)	>0.99 (Adjustable from 0.8 leading to 0.8 lagging)				
TOTAL HARMONIC DISTORTION (THDi)	<3% at rated load				
FEED- IN PHASE / CONNECTION PHASE	3 phase, N, PE				
EFFICIENCY					
MAX. EFFICIENCY (%)	98				
MPPT EFFICIENCY (%)	>99				
EURO EFFICIENCY (%)	97.5				
PROTECTIONS					
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				
INTERFACE					
DC CONNECTION	MC4 connectors				
DISPLAY	LCD with LED indications				
DATALOGGER & COMMUNICATION	RS485 (default) / Wi-Fi / GSM (To be ordered along with inverter separately)				
TOPOLOGY	Transformerless				
CONSUMPTION @ NIGHT (W)	<1				
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				
DESIGNED LIFETIME	<20 years				
WARRANTY	7 years				
INGRESS PROTECTION	IP65				
DIMENSIONS IN MM (W*H*D)	285*502*178				
NET WEIGHT (KG)	11				
MECHANICAL INTEGRATION	Wall mountable				
SAFETY	IS 16169 : 2019 / IEC 62116 : 2014, IS 16221 (part 2) : 2015 / IEC 62109-2 : 2011				
ENVIRONMENTAL	IEC 60529				
ELECTRICAL	IS 17980 : 2022 / IEC 62891 : 2020, IEC 61000				

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

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CERTIFICATIONS



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