

SOLAR ON GRID INVERTER

 **CREST**
by **selec**

**Designed &
Manufactured
in INDIA**



Single Phase - 1.5kW, 2.5kW, 3.3kW, 4.2kW, 5.2kW, 6kW
Three Phase - 6kW, 10kW, 33kW, 50kW



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Technical Specification for Single Phase Solar On Grid Inverter

SYSTEM	SINGLE PHASE					
MAX. DC INPUT POWER	1.5kW	2.5kW	3.3kW	4.2kW	5.2kW	6kW
INPUT SPECIFICATIONS (DC)						
MAX. ALLOWABLE PV POWER (kW)	2.5	3.5	4.2	5.9	7.2	8.1
NOMINAL PV VOLTAGE (V)	360					
MAX. DC INPUT VOLTAGE (V)	550					
START-UP VOLTAGE (V)	80					
OPERATING RANGE (V)	65-550			80-550		
MPPT VOLTAGE RANGE (V)	65-550			80-550		
MAX INPUT CURRENT PER MPPT (A)	13			13.5		
NUMBER OF MPPT	1			2		
MAX INPUT STRINGS NUMBER	1			2		
MAXIMUM PV SHORT CIRCUIT CURRENT PER MPPT (ISC)	16			16.9		
OUTPUT SPECIFICATIONS (AC)						
RATED OUTPUT POWER (kW)	1.5	2.5	3.3	4.2	5.2	6
MAX. AC POWER (kVA)	1.5	2.5	3.3	4.2	5.2	6
NOMINAL AC CURRENT, RMS (A)	6.3	10.4	13.8	17.5	21.7	25
MAX. OUTPUT CURRENT (A)	7.1	11.9	16	19	23.6	27.2
GRID VOLTAGE RANGE (V)	180 - 280					
GRID FREQUENCY RANGE (HZ)	50 (45-55Hz)					
POWER FACTOR (AT RATED OUTPUT POWER)	>0.99 (Adjustable from 0.8 leading to 0.8 lagging)					
TOTAL HARMONIC DISTORTION	<3% at rated load					
TOTAL HARMONIC DISTORTION	Single Phase					
EFFICIENCY						
MAX. EFFICIENCY (%)	97.4			98.4		
MPPT EFFICIENCY (%)	>99.9					
EURO EFFICIENCY (%)	97.1			97.5		
PROTECTIONS						
DC REVERSE POLARITY PROTECTION	Yes					
SHORT CIRCUIT PROTECTION	Yes					
OVER CURRENT PROTECTION	Yes					
OVER VOLTAGE / UNDER VOLTAGE PROTECTION	Yes					
OVER FREQUENCY / UNDER FREQUENCY	Yes					
INSULATION RESISTANCE MONITORING	Yes					
RESIDUAL CURRENT DETECTION	Yes					
SURGE PROTECTION	Yes					
ISLANDING PROTECTION	Yes					
TEMPERATURE PROTECTION	Yes					
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 / Wi-Fi / GSM (Optional)					
GENERAL DATA						
TOPOLOGY	Transformerless					
CONSUMPTION @ NIGHT (W)	<0.5 W			<1 W		
OPERATING TEMPERATURE RANGE	-25°C to +60°C					
COOLING METHOD	Natural convection					
RELATIVE HUMIDITY	0 to 100% non-condensing					
MAX. OPERATIONAL ALTITUDE	4000 m					
NOISE (dBA)	<25 dBA					
DESIGNED LIFETIME	> 20 years					
WARRANTY	7 years					
INGRESS PROTECTION	IP65					
DIMENSIONS IN MM (W*H*D)	275*313*131			375*394*156		
NET WEIGHT (KG)	5.2			10.8		
MECHANICAL INTEGRATION	Wall mountable					
STANDARD COMPLIANCE	IEC 61683, IEC 60068, IEC 61727, IEC 61000-6-2, IEC 61000-6-3					
CERTIFICATIONS (BIS)	IS 16221-1/2, IS 16169					

Technical Specification for Three Phase Solar On Grid Inverter

SYSTEM	THREE PHASE			
RATINGS	6kW	10kW	33kW	50kW
INPUT SPECIFICATIONS (DC)				
MAX. DC INPUT POWER (KW)	6	10	33	50
MAX. ALLOWABLE PV POWER (KW)	7.5	12.5	41.2	62.5 ⁺
NOMINAL PV VOLTAGE (V)	630		600	
MAX. DC INPUT VOLTAGE (V)	1000			
START-UP VOLTAGE (V)	180		200	
OPERATING RANGE (V)	160 - 1000		180 - 1000	
MPPT VOLTAGE RANGE (V)	160 - 1000		180 - 1000	
MAX INPUT CURRENT PER MPPT (A)	11.6 /11.6		26 / 26 / 26	40 / 30 / 30
NUMBER OF MPPT	2		3	
MAX INPUT STRINGS NUMBER	2		2_2_2	4_3_3
MAXIMUM PV SHORT CIRCUIT CURRENT PER MPPT (ISC)	16		40	55
OUTPUT SPECIFICATIONS (AC)				
RATED OUTPUT POWER (KW)	6	10	33	50
MAX. AC POWER (kVA)	6.6	11	36.3	55.5
NOMINAL AC CURRENT, RMS (A)	9	14	45	70
MAX. OUTPUT CURRENT (A)	10	16	55	84
GRID VOLTAGE RANGE (V)	320 - 480			
GRID FREQUENCY RANGE (HZ)	50/60 Hz (45-55Hz/55-65 Hz)			
POWER FACTOR (AT RATED OUTPUT POWER)	~ 1 (Adjustable from 0.8 leading to 0.8 lagging)			
TOTAL HARMONIC DISTORTION	<3% at rated load			
FEED-IN PHASE / CONNECTION PHASE	Three Phase			
EFFICIENCY				
MAX. EFFICIENCY (%)	98.3		98.8	98.7
MPPT EFFICIENCY (%)	>99.9			
EURO EFFICIENCY (%)	97.7		98.3	
PROTECTIONS				
DC REVERSE POLARITY PROTECTION	Yes			
SHORT CIRCUIT PROTECTION	Yes			
OVER CURRENT PROTECTION	Yes			
OVER VOLTAGE / UNDER VOLTAGE PROTECTION	Yes			
OVER FREQUENCY / UNDER FREQUENCY	Yes			
INSULATION RESISTANCE MONITORING	Yes			
RESIDUAL CURRENT DETECTION	Yes			
SURGE PROTECTION	Yes			
ISLANDING PROTECTION	Yes			
TEMPERATURE PROTECTION	Yes			
INTEGRATED DC SWITCH	Yes			
INTEGRATED AFCI (DC ARC-FAULT CIRCUIT PROTECTION)	Optional			
INTERFACE				
DC CONNECTION	MC4			
DISPLAY	LCD with LED indications			
DATALOGGER & COMMUNICATION	Rs485 / Wi-Fi / GSM (Optional)			
GENERAL DATA				
TOPOLOGY	Transformerless			
CONSUMPTION @ NIGHT (W)	< 1W			
OPERATING TEMPERATURE RANGE	-25°C to 60°C			
COOLING METHOD	Forced Cooling			
RELATIVE HUMIDITY	0 to 100% non-condensing			
MAX. OPERATIONAL ALTITUDE	3000 m		4000 m	
NOISE (dBA)	< 30 dBA		<60 dBA	
DESIGNED LIFETIME	> 20 years			
WARRANTY	7 years			
INGRESS PROTECTION	IP65			
DIMENSIONS IN MM (W*H*D)	500*500*200		580*830*285	
NET WEIGHT (KG)	26		86	
MECHANICAL INTEGRATION	Wall mountable			
STANDARD COMPLIANCE	IEC 61683, IEC 60068, IEC 61727, IEC 61000-6-2, IEC 61000-6-3			
CERTIFICATIONS (BIS)	IS 16221-1/2, IS 16169			

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

KEY FEATURES OF SELEC SOLAR ON GRID INVERTER



Anti-Islanding Protection



Ingress Protection



Forced & Natural Cooling Convection



Low start-up voltage



>97% Efficiency



Remote Monitoring



Wider MPPT Range



Built-in Zero Export Device

Ordering information

Product Code	Description	HSN Code	Product Code	Description
SINGLE PHASE			THREE PHASE	
GTI001WLM1PW	Grid Tie Inverter - 1 Phase/ 1.5 kW, Wall mounted with Wifi Module	85044090	GTI006WLM3PW	Grid Tie Inverter - 3 Phase/ 06 kW, Wall mounted with Wifi Module
GTI002WLM1PW	Grid Tie Inverter - 1 Phase/ 2.5 kW, Wall mounted with Wifi Module		GTI010WLM3PW	Grid Tie Inverter - 3 Phase/ 10 kW, Wall mounted with Wifi Module
GTI003WLM1PW	Grid Tie Inverter - 1 Phase/ 3.3 kW, Wall mounted with Wifi Module		GTI033WLM3PW	Grid Tie Inverter - 3 Phase/ 33 kW, Wall mounted with Wifi Module
GTI004WLM1PW	Grid Tie Inverter - 1 Phase/ 4.2 kW, Wall mounted with Wifi Module		GTI050WLM3PW	Grid Tie Inverter - 3 Phase/ 50 kW, Wall mounted with Wifi Module
GTI005WLM1PW	Grid Tie Inverter - 1 Phase/ 5.2 kW, Wall mounted with Wifi Module		GTI100WLM3PW	Grid Tie Inverter - 3 Phase/ 100 kW, Wall mounted with Wifi Module
GTI006WLM1PW	Grid Tie Inverter - 1 Phase/ 06 kW, Wall mounted with Wifi Module			

All specifications are subject to change without notice.

PRICES ON DEMAND

Applications



Residential rooftop solutions



Commercial rooftop solutions



Industrial rooftop solutions



Ground mounted (Open access)

& many more...

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