



RESIDENTIAL SERIES ON-GRID INVERTER DATASHEET



- GT 5.0K-3P
- GT 6.0K-3P
- GT 8.0K-3P
- GT 10K-3P
- GT 12K-3P

F Zero Export & VSG Application

20 20A String Current

 Wide Output Voltage Range

80 Low Start-Up Voltage of 80V

 Suited for Outdoor

 Inbuilt Wifi GPRS (Optional)

 BIS Certified

 Easy to Service

 Cloud Based Monitoring

 10 Years Warranty



Technical Data

MODEL	GT 5.0K-3P	GT 6.0K-3P	GT 8.0K-3P	GT 10K-3P	GT 12K-3P
Input Side					
MAX. DC Input Power (KW)	6.5	7.8	10.4	13	15.6
MAX. DC Input Voltage (v)	1100				
Start up DC Input Voltage(V)	140				250
MPPT Operating Range (v)	120-1000				200-1000
MAX DC Input Current (A)	20+20				
MAX Short Circuit Current (A)	30+30				
No. Of MPP Tracker	2				
No. strings per MPP Tracker	1+1				
Output Side					
Rated Output Power (KW)	5	6	8	10	12
MAX. Active Power (KW)	5.5	6.6	8.8	11	13.2
Rated Output Voltage/range (V)	400V AC (3P + N + E)				
Rated Grid Frequency (Hz)	50/60(optional)				
Operating Phase	Three Phase				
Rated Ac Grid Output Current	7.6/7.2	9.1/8.7	12.1/11.6	15.2/14.5	18.2/17.4
Max. AC Output Current (A)	8.3/8	10/9.6	13.3/12.7	16.7/15.9	20/19.1
Output Power Factor	0.8 Leading to 0.8 lagging				
Total Harmonics Current Distortion (THDi)	<0.3%				
DC Injection Current (mA)	<0.5%				
Grid Frequency Range (Hz)	45-55				
Efficiency					
Max. Efficiency (Inverter)	98.30%				
Euro Efficiency	97.50%				
MPPT Efficiency	>99%				
Protection					
DC Reverse - Polarity Protection	Yes				
AC Short Circuit Protection	Yes				
AC Output Overcurrent Protection	Yes				
Output Overvoltage Protection	Yes				
Insulation Resistance Protection	Yes				
Ground Fault Monitoring	Yes				
Anti- Islanding Protection	Yes				
Temperature Protection	Yes				
Integrated DC Switch	Yes				
Remote Software Upload	Yes				
Remote Change Operating Parameters	Yes				
Surge Protection	DC Type II / AC Type II				
General Data					
Size(mm) W H D*	330x457x203				
Colour Shade	383636 & 716C				
Weight(kg)*	11				
Topology	Transformerless				
Internal Consumption	<1W(Night)				
Operating Temperature	-25°C to + 60°C (derating above 45°)				
Ingress Protection	IP65				
Noise Emission (Typical)	≤ 30dB				
Cooling Type	Natural Cooling				
Max. Operating Altitude Without Derating	4000m				
Certifications	IEC 62116, IEC 61727, IEC60068-2-1,2,14,30,27,64 , IEC 61683, IEC 61000 1/2, IEC 62109-1&2				
Humidity	0-100% (Non Condensing)				
Features					
Display	LCD1602				
Interface	RS485/RS232/Wifi/GPRS				

*Due to continuous product innovation, dimensions and weight may differ from the datasheet.

RAYAX™

The Rays Of Power

CORPORATE ADDRESS

RAYAX ENERGY PRIVATE LIMITED

13P, Captain Ganpat Ram Yadav Marg, Block D, Indira Colony 2, Sector 52,
Gurugram, Haryana - 122003

FACTORY ADDRESS

Plot No. 379/1, Near DPS School, Village Manesar, Tehsil Manesar,
Distt. Gurugram, Haryana - 122052

Toll Free Number: 1800-5475-600  Info@rayaxenergy.com  www.rayaxenergy.com