



# LET THE SUN POWER YOUR ROOF AND BUSINESS



**HAVELLS SOLAR GRID-TIE INVERTER  
1 kW TO 100 kW**

# TECHNICAL SPECIFICATION OF SINGLE PHASE SOLAR GRID TIE INVERTER

## DATASHEET

	Enviro GTI 1100 NG	Enviro GTI 2200 NG	Enviro GTI 3000 NG	Enviro GTI 3300 NG
<b>Input (DC)</b>				
Recommended Max. PV input power	1500 Wp	3000 Wp	4100 Wp	4500 Wp
Max. Input voltage	500 V	500 V	560 V	550 V
Start-up voltage	70 V	70 V	70 V	70 V
Rated input voltage	360 V	360 V	360 V	360 V
MPPT operating voltage range	50 V - 500 V	50 V - 500 V	50 V - 550 V	50 V - 550 V
Full power MPPT voltage range	110 - 450 V	200 - 450 V	270-500 V	300-500 V
Max. Input current MPPT	12 A	12 A	12 A	12 A
Maximum DC input short circuit current per MPPT	15 A	15 A	15 A	15 A
Number of MPPT / String per MPPT	1/1	1/1	1/1	1/1
Input terminal type	MC4 / H4	MC4 / H4	MC4 / H4	MC4 / H4
<b>Output (AC)</b>				
Rated Power	1100 W	2200 W	3000 W	3300 W
Max. AC Power	1100 VA	2200 VA	3000 VA	3300 VA
Rated Output current	4.8 A	9.6 A	13 A	14.3 A
Max. Output Current	5.3 A	10.6 A	14.5 A	16 A
Nominal Grid Voltage	L/N/PE, 220 Vac, 230 Vac, 240 Vac			
Grid Voltage Range	180 Vac - 276 Vac (According to local standard)			
Nominal Frequency	50 Hz / 60 Hz			
Grid Frequency Range	45-55 Hz			
THDI	<3 %			
Power factor	1 default (adjustable +/- 0.8)			
<b>Efficiency</b>				
Max. efficiency	97.5 %	97.5 %	97.7 %	97.7 %
European weighted efficiency	96.9 %	96.9 %	97.2 %	97.2 %
Self Consumption at night	< 1 W			
MPPT Efficiency	> 99.9 %			
<b>Protection</b>				
Anti-islanding protection	Yes			
DC reverse polarity protection	Yes			
Over temp protection	Yes			
Leakage current protection	Yes			
Over voltage protection	Yes			
Over current protection	Yes			
Earth fault protection	Yes			
SPD	MOV: Type III standard			
<b>Communication</b>				
Standard Communication Mode	RS485, WiFi/GPRS/Ethernet(optional), USB			
<b>General Data</b>				
Topology	Transformerless			
Ambient temperature range	-30 ~+60 deg C			
Allowable relative humidity range	0-100 %			
Noise	<25 dB			
DC switch	optional			
Cooling	Natural			
Max. Operating altitude	2000 m			
Dimension [mm]	303 x 260.5 x 118 mm	303 x 260.5 x 118 mm	321 x 260.5 x 131.5 mm	321 x 260.5 x 131.5 mm
Support bracket	Wall Mounted			
Weight	5.5 kg	5.5 kg	6.3 kg	6.3 kg
Display	LCD-LED			
Degree of protection	IP65			
Warranty	10 years			
<b>Standard</b>				
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4,			
Safety standards	IEC 62116, IEC 61727, IEC 61683, IEC 60068 (1.2.14.30), IEC 62109-1/2			
BIS Certified	IS 16221 (PART 2) : 2015/IEC 62109-2 : 2011 & IS 16169 : 2014/IEC 62116 : 2008			

# TECHNICAL SPECIFICATION OF SINGLE PHASE SOLAR GRID TIE INVERTER

## DATASHEET

	Enviro GTI 4000 D	Enviro GTI 5000 D	Enviro GTI 6000 D
<b>Input (DC)</b>			
Max. Input power	5320 Wp	6650 Wp	7980 Wp
Max. DC power for single MPPT	3500 W	3500 W	3500 W
Number of independent MPPT	2		
Number of DC inputs	1/1		
Max. input voltage	600 V		
Start-up input voltage	120 V		
Rated input voltage	360 V		
MPPT Operating voltage range	90 V - 580 V		
Full power MPPT voltage range	200 V - 520 V	250 V - 520 V	300 V - 520 V
Max. Input current per MPPT	11 A / 11 A		
Maximum DC input Isc per MPPT	13.2 A		
<b>Output (AC)</b>			
Rated Power	4000 W	5000 W	6000 W
Max. AC Power	4000 VA	5000 VA	6000 VA
Max. Output Current	18.2 A	22.8 A	27.3 A
Nominal Grid Voltage	L/N/PE, 220 V ac, 230 V ac, 240 V ac		
Grid Voltage Range	180 V ac-276 V ac (According to local standard)		
Nominal Frequency	50 Hz / 60 Hz		
Grid Frequency Range	45 Hz-55 Hz (According to local standard)		
Active power adjustable range	0-100 %		
THDI	<3 %		
Power factor	1 (adjustable +/- 0.8)		
Power Limit export	Zero export or adjustable power limit export		
<b>Performance</b>			
Max. efficiency	98.0 %		
Weighted eff. (EU/CEC)	97.5 %		
Self-consumption at night	<1 W		
MPPT efficiency	>99.9 %		
<b>Protection</b>			
DC Reverse Polarity Protection	Yes		
DC Switch	optional		
Protection class/overvoltage category	I / III		
Input / output MOV (III)	Yes		
Safety protection	Anti islanding, RCMU, Ground fault monitoring		
Certification	IEC 62116, IEC 61727, IEC 61683, IEC 60068 (1, 2, 14, 30), IEC 62109-1/2, IEC 61000, IP65		
SPD	MOV : Type III standard		
<b>Communication</b>			
Power management unit	According to certification and request		
Standard Communication Mode	RS485, WiFi/GPRS (optional), SD card		
Operation Data Storage	25 years		
<b>General Data</b>			
Ambient temperature range	-25 °C-+60 °C		
Topology	Transformerless		
Degree of protection	IP65		
Allowable relative humidity range	0...100 %		
Max. operating altitude	2000 m		
Noise	<25 dB		
Weight	11.5 kg		
Cooling	Natural		
Dimension	405 mm x 315 mm x 135 mm		
Display	LCD display		
Warranty	10 years		
<b>BIS Certified</b>	IS 16221 (PART 2):2015/IEC 62109-2 :2011 & IS 16169 :2014/IEC 62116 :2008		