



HAVELLS

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HARNESSING LIGHT. HARVESTING ENERGY.

**LET THE SUN POWER
YOUR BUSINESS**



HAVELLS ENVIRO GTi 255 kW-HV

- Designed for 1500V DC Application
- 12 MPPT with 40 % DC Overload
- Compatible with Bi-facial PV Modules with 15 Amp current per string
- AC & DC Side TYPE-II SPD



TECHNICAL SPECIFICATION

PARAMETER	ENVIRO GTi 255 kW- HV
INPUT (DC)	
Max. input voltage	1500 V
Rated input voltage	1080 V
Start-up voltage	550 V
MPPT operating voltage range	500 V~1500 V
Full power MPPT voltage range	800 V~1300 V
Number of MPP trackers	12
Number for DC inputs	24
Max. input current per MPPT	30A*12
Max. input short circuit current per MPPT	50A*12
OUTPUT (AC)	
Rated output power	255 kW
Maximum apparent power	255 kVA @30°C / 235 kVA@40 °C / 220 kVA @50 °C
Max. Output current	184 A
Nominal grid voltage	3/PE, 800 Vac
Grid voltage range	640 Vac~920 Vac
Nominal frequency	50 Hz / 60 Hz
Grid frequency range	45~55Hz / 55~ 65Hz (according to local standard)
Active power adjustable range	0~100 %
THDi	<3 %
Power factor	1 default (-0.8...+0.8 adjustable)
Power factor	1 default (-0.8...+0.8 adjustable)
PERFORMANCE	
Max efficiency	99.02 %
European Weighted efficiency	98.5 %
MPPT efficiency	>99.9 %
Self-Consumption at night	< 2 W
STANDARD	
EMC	EN 61000-6-2, EN 61000-6-4 (under certification)
Safety standard	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30) (under certification)
PROTECTION	
DC reverse polarity protection	Yes
Anti-Islanding Protection	Yes
Leakage current protection	Yes
Ground fault monitoring	Yes
PV-array string fault monitoring	Yes
Zero voltage ride through	Yes
DC Switch	Yes
Anti-PID function	Optional
AFCl protection	Optional
Protection class/ overvoltage category	I/III
Input/ output SPD	PV: Type II standard, AC: Type II Standard

TECHNICAL SPECIFICATION

PARAMETER	ENVIRO GTi 255 kW- HV
GENERAL DATA	
Topology	Transformer less
Ambient temperature range	-30 ~+60
Relative humidity	0% 100 %
Cooling	Smart forced air cooling
Max. altitude	4000 m
Noise	≤60 dB
Mounting	Wall mount
Communication	WiFi /GPRS /RS485/PLC/Bluetooth optional
Operation data storage	25 years
Display	LCD& Bluetooth
Self-consumption at night	<2 W
Degree of protection	IP66
Dimension	1100.5 mm × 713.5 mm × 368 mm
Weight	100 kg



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