



HAVELLS

enviro
HARNESSING LIGHT. HARVESTING ENERGY.

**LET THE SUN
POWER YOUR HOME**



Single-Phase

Enviro GTi Hybrid Inverter

GTi 3000 HY - 5000 HY



Outdoor IP65 design



Reduce Maintenance



Compatible with On-Grid & Off-Grid



lithium / LMLA battery

TECHNICAL SPECIFICATION OF SINGLE PHASE SOLAR HYBIRD INVERTER

DATASHEET	GTi 3000 HY	GTi 5000 HY
Battery Parameters		
Battery Type	Lithium-ion, Lead-acid	
Nominal battery voltage	48 V	
Battery voltage range	42 V - 58 V	
Battery Capacity	50-2000 Ah	
Maximum Charging / Discharging Power	3000 W	
Maximum Charging Current	65 A (Programmable)	
Maximum Discharging Current	70 A (Programmable)	
Charging curve(Lithium-ion)	BMS	
Charging curve(Lead-acid)	3-Stage adaptive with maintenance	
Depth of discharge	Lithium-ion: 0-90% DOD adjustable, Lead-acid:0-50% DOD adjustable	
Input DC(PV side)		
Recommended Max. PV input power	3990 W	6650 W
Max DC power for single MPPT	2000 W	3000 W
Max. input voltage	600 V	
Start-up voltage	120 V	
Nominal DC Voltage	360 V	
MPPT operating voltage range	90-580V	
Full power MPPT voltage range	160 V - 520 V	250 V - 520 V
MPPT number	2	
The max DC input current	12A/12A	
The max DC input short current	15A/15A	
Output AC(Grid side)		
Rated Power	3000W	5000W
Max. Output Power	3000VA	5000VA
Nominal Grid Voltage	L/N/PE, 220, 230, 240	
Operation phase	Single (L-N-PE)	
Max. Input / Output current	13.7A	22.8A
AC voltage Range	180V~276V (According to local standard)	
Grid Frequency range	44-55Hz/54-66Hz (According to local standard)	
THD	<3%	
Power factor	1 default (+/-0.8 adjustable)	
Output AC(Emergency Power Supply)		
EPS rated power	3000VA	
Operation phase	Single (L-N-PE)	
EPS rated voltage,Frequency	230V, 50/60Hz	
EPS rated current	13A	
Peak Output Apparent Power	4000VA, 10s	
THD	180-276Vac (According to local standard)	
Switch time	10ms default	

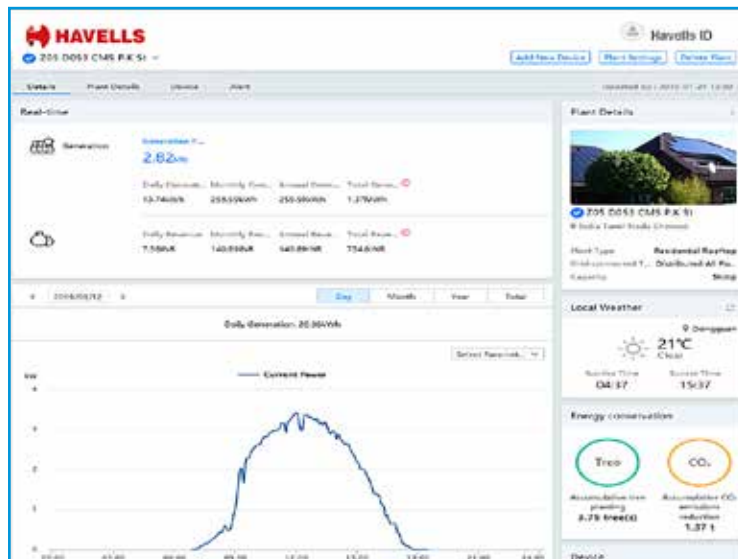
TECHNICAL SPECIFICATION OF THREE PHASE SOLAR GRID TIE INVERTER

DATASHEET	GTi 3000 HY	GTi 5000 HY
Efficiency		
MPPT efficiency	99.9%	
MPPT efficiency	97.6%	97.8%
Max efficiency of solar Inverter	97.2%	97.3%
European efficiency of solar Inverter	94.6%	
Max. Charging efficiency of battery	94.6%	
Protection		
PV reverse polarity protection	Yes	
PV insulation detection	Yes	
Ground fault monitoring	Yes	
Over current protection	Yes	
Over voltage protection	Yes	
Battery soft start protection	Yes	
General Data		
Ambient temperature range	-30 ~+60 (Above 45 Derating)	
Standby Losses	<10W	
Topology	High frequency insulation (for bat)	
DC-Switch	Yes	
Degree Of Protection	IP65	
Allowable Relative Humidity Range	0~100%	
Communication	RS485, Wifi/Ethernet/GPRS, SD, CAN2.0	
Protective class	Class I	
Max. Operating Altitude	2000m	
Current Sensor Connection	External	
Noise	<25dB	
Weight	20.5kg	
Cooling	Natural	
Dimension (W*H*D)	566*394*173 mm	
Display	LCD display	
Warranty	5 Years	
Standard		
EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12	
Safety standards	IEC62109-1/2, IEC62040-1, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)	

REMOTE MONITORING

FEATURES

- Web based Remote monitoring
- User-friendly & easy access via Internet
- Real Time Data-logging and historical data storage for analysis
- Data available with various graph and format options for easy understanding and analysis
- Automatic alarms for any malfunctions via Email or SMS



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