



POLYCAB

Connection Zindagi Ka

SOLAR

SOLAR GRID - TIE 255K-EHV-5G STRING INVERTERS THREE PHASE



LEADING FEATURES:

- Maximum Efficiency 99%
- Wide MPPT Voltage range and low start up voltage
- Supports 50% DC overloading, 14 MPPT design with precise MPPT algorithm
- Low Harmonic Distortion, THDi < 3%
- IP66 for outdoor Installation
- High Power tracking density 56 MPPT/MW @ 30°C
- Compatible with Bifacial Modules
- Intelligent Fan Cooling
- Type II SPD for both DC and AC side
- High precision intelligent string monitoring
- SVG function at Night
- Smart I-V Curve Diagnosis
- Safe and maintenance free with fuse free design
- LCD display + Keypad + LED Indication
- Built-In Anti PID recovery for better module performance
- Integrated DC disconnect switches
- Max. Parallel Inverters are allow up-to 25 nos. due to low resonance
- Low consumption < 2W at night time
- RS - 485, Ethernet; Wi-Fi / GPRS / LAN; PLC (optional) monitoring interface
- Support "Y" type connection in DC side
- Supports Aluminium cable access to reduce cost

TECHNICAL SPECIFICATIONS	
MODEL	PSIT - 255 K - EHV - 5G
Rating	255 KW
INPUT DC	
Max. DC Input Power (kW)	330
Max. DC Input Voltage (V)	1500
Rated Voltage	1080
Start-Up Voltage (V)	600
MPPT Voltage Range (V)	580 - 1500
Max. Input Current (A)	14*26
Max Short Circuit Current for each MPPT (A)	14*40
MPPT Number / No.of Strings per MPPT	14/28
OUTPUT AC	
Rated Output Power (kVA)	255 @ 30°C / 235 @ 40°C / 220 @ 50°C
Max. Output Power (kW)	255
Rated Grid Voltage (V)	3/PE , 800
Grid Voltage Range (V)	640 - 920
Rated Grid Frequency (Hz)	50/60
Grid Frequency Range (Hz)	47 - 52 or 57 - 62
Max. Output Current (A)	184
Power Factor (at rated output power)	> 0.99 (Adjustable 0.8 leading ..1.. 0.8 lagging)
THDi (at rated output power)	< 3 %
DC Injection Current (mA)	< 0.5 % In
EFFICIENCY	
Max. Efficiency	99.0 %
EU Efficiency	98.7 %
MPPT Efficiency	99.9 %
PROTECTIONS	
Built-in Protections	DC Reverse Polarity Protection, Short Circuit Protection, Output Over Current Protection, Output Over Voltage Protection, Insulation Resistance Monitoring, Residual Current Detection, Islanding Protection, Temperature Protection, Grid Monitoring
Surge Protection (DC/AC)	Type II / Type II
I/V Curve scanning	Yes
Integrated DC Switch	Yes
String Monitoring	Yes
Night Time SVG Function	Yes
Anti - PID Function	Yes
Integrated AFCI Function (DC arc - fault circuit protection)	Yes
GENERAL DATA	
Dimension (mm)	1125W*770H*384D
Weight (kg)	113
Topology	Transformerless
Self Consumption (Watt)	< 2 (Night)
Operating Ambient Temperature Range	-25 to +60°C
Relative Humidity	0~100%
Ingress Protection	IP66
Noise Emission {Typical}	< 65dB
Cooling Concept	Intelligent Fan-cooling
Max. Operation Altitude (m)	4000
Design Life	> 25 Years
FEATURES	
DC Connection	MC-4 mateable
AC Connection	OT Terminal Connectors (max. 300 mm ²)
Display	LCD, 2x20 Z
Communication Interface	RS 485, Ethernet; PLC (Optional)
Monitoring	WiFi / GPRS / LAN
OTA update	Yes
IEC CERTIFICATES	
Grid Connection	IEC 61727
Anti-Islanding Protection	IEC 62116
Environmental Testing	IEC 60068-2 (1-2-14-27-30-64)
Safety	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2
EMC	IEC 61000-3-5, IEC 61000-3-12, IEC 1000-6-2, IEC 61000-6-4, EN 61000-6-2, EN 61000-6-4
Efficiency Measurement	IEC 61683, EN 50530

Note: Specifications are subject to change

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