



# GRID TIE INVERTER



Harness the **power of the sun** and never look back with our **solar inverters**



1 MPP tracker, Max. efficiency up to 97.5%



Zero export application, SG application



String intelligent monitoring (optional)



Wide output voltage range



Anti - PID function (Optional)



Low start-up voltage of 80V

# GRID TIE INVERTER - SINGLE PHASE

Model	EGT-3K-1P1M	EGT-5K-1P2M
<b>Input (DC)</b>		
Max. DC Input Power (kW)	3.9	6.5
Max. DC Input Voltage (V)	500	
Start-up DC Input Voltage (V)	80	
MPPT Operating Range (V)	70~450	
Max. DC Input Current (A)	13	13+13
Max. Short Circuit Current (A)	19.5	19.5+19.5
No.of MPP Trackers	1	2
No.of Strings per MPP Tracker	1	
<b>Output (AC)</b>		
Rated Output Power (kW)	3	5
Max. Active Power (kW)	3.3	5.5
Nominal Output Voltage / Range (V)	L/N/PE 220/230V (Optional)	
Rated Grid Frequency (Hz)	50 / 60 (Optional)	
Operating Phase	Single phase	
Rated AC Grid Output Current (A)	13	21.7
Max. AC Output Current (A)	14.3	23.9
Output Power Factor	0.8 leading to 0.8 lagging	
Grid Current THD	<3% (At rated power)	
DC Injection Current (mA)	<0.5%	
Grid Frequency Range	50/60Hz (±5)	
<b>Efficiency</b>		
Max. Efficiency	97.5%	
Euro Efficiency	97.3%	
MPPT Efficiency	>99%	
<b>Protection</b>		
DC Reverse-Polarity Protection	Integrated	
AC Short Circuit Protection	Integrated	
AC Output Overcurrent Protection	Integrated	
Output Overvoltage Protection	Integrated	
Insulation Resistance Protection	Integrated	
Ground Fault Monitoring	Integrated	
Anti-islanding Protection	Integrated	
Temperature Protection	Integrated	
Integrated DC Switch	Optional	Integrated
Remote software upload	Yes	
Remote change of operating parameters	Yes	
Surge protection	DC Type II / AC Type II	
<b>General Data</b>		
Size (mm)	280W×272.5H×184D	330W×323H×190D
Weight (kg)	4.8	7.5
Topology	Transformerless	
Internal Consumption	<1W (Night)	
Running Temperature	-25~65°C, >45°C derating	
Ingress Protection	IP65	
Noise Emission (Typical)	≤ 35 dB	<35 dB
Cooling Concept	Natural cooling	
Max. Operating Altitude Without Derating	2000m	
Warranty	10 Years (Logger, ZED & CT)	
Grid Connection Standard	IEC61727/62116, AS4777.2, CEI 0 21, C10-11, UNE217002, VDE4105, VDE0126, EN50549-1, G98, G99, NBR16149/NBR16150	
Operating Surroundings Humidity	0-100%	
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	
<b>Features</b>		
DC Connection	MC-4 mateable	
AC Connection	IP65 rated plug	
Display	LCD1602	
Interface	RS485/RS232/Wifi/LAN	

\*All specifications are subject to change without notice

# GRID TIE INVERTER - THREE PHASE

Model	EGT-5K-3P2M	EGT-10K-3P2M	EGT-15K-3P2M
<b>Input (DC)</b>			
Max. DC Input Power (kW)	6.5	13	19.5
Max. DC Input Voltage (V)	1000		1000
Start-up DC Input Voltage (V)	140		250
MPPT Operating Range (V)	120~850		200~850
Max. DC Input Current (A)	13+13		13+26
Max. Short Circuit Current (A)	19.5+19.5		19.5+39
No.of MPP Trackers	2		2
No.of Strings per MPP Tracker	1		1+2
<b>Output (AC)</b>			
Rated Output Power (kW)	5	10	15
Max. Active Power (kW)	5.5	11	16.5
Nominal Output Voltage / Range (V)	3L/N/PE 220/380V, 230/400V		
Rated Grid Frequency (Hz)	50/60 (Optional)		
Operating Phase	Three phase		
Rated AC Grid Output Current (A)	7.6 / 7.2	15.2 / 14.5	22.7/21.7
Max. AC Output Current (A)	8.3 / 8	16.7 / 15.9	25/23.9
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<3% (At rated power)		
DC Injection Current (mA)	<0.5%		
Grid Frequency Range	50/60Hz (±5)		
<b>Efficiency</b>			
Max. Efficiency	98.3%		98.5%
Euro Efficiency	97.5%		
MPPT Efficiency	>99%		
<b>Protection</b>			
DC Reverse-Polarity Protection	Integrated		
AC Short Circuit Protection	Integrated		
AC Output Overcurrent Protection	Integrated		
Output Overvoltage Protection	Integrated		
Insulation Resistance Protection	Integrated		
Ground Fault Monitoring	Integrated		
Anti-islanding Protection	Integrated		
Temperature Protection	Integrated		
Integrated DC Switch	Integrated		
Remote software upload	Integrated		
Remote change of operating parameters	Integrated		
Surge protection	DC Type II / AC Type II		
<b>General Data</b>			
Size (mm)	330W×457H×185D		333W×472H×202D
Weight (kg)	10		15
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Running Temperature	-25~65°C, >45°C derating		
Ingress Protection	IP65		
Noise Emission (Typical)	≤ 35 dB		<40 dB
Cooling Concept	Natural cooling		Smart cooling
Max. Operating Altitude Without Derating	2000m		
Warranty	10 Years (Logger, ZED & CT)		
Grid Connection Standard	IEC61727/62116, VDE4105, UNE217002, NBR16149/NBR16150, VDE0126, AS4777.2, CEI 0 21,EN50549-1, G98, G99, C10-11		IEC 62116, IEC 61727, CEI 0-21, VDE 0126-1-1, RD 1699, C10-11, VDE-AR-N 4105, NRS 097, G99, G98,
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
<b>Features</b>			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD1602		
Interface	RS485/RS232/Wifi/LAN		





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