



**Eastman®**

**GRID TIE INVERTER**

**10 YEARS\* WARRANTY**

**GRID TIE INVERTER**

A GREEN INNOVATION FROM EASTMAN GROUP

**Eastman**  
ENERGY. UNLIMITED.

Power : 4200W  
State : Normal

DC AC Normal Alarm

ESC ▲ ▼ ENT

\*T&C APPLY

MADE IN INDIA



1800 419 8610



**EASTMAN AUTO & POWER LTD.**

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www.eaplworld.com

[www.eaplworld.com](http://www.eaplworld.com)

#TheWiseChoice

# GRID TIE INVERTER - SINGLE PHASE

Model	EGT-2.2K-1P1M	EGT-3K-1P1M	EGT-5K-1P2M
<b>Input (DC)</b>			
Max. DC Input Power(kW)	2.9	3.9	6.5
Max. DC Input Voltage (V)		550	
Start-up DC Input Voltage (V)		80	
MPPT Operating Range (V)		70-500	
Rated DC Input Voltage (V)		360	
MPPT Full Power Voltage Range (V)	225-500	270-500	180-500
Max. DC Input Current(A)		20	18+18
Max. Short Circuit Current (A)		30	27+27
No.of MPP Trackers	1		
No. of Strings per MPP Tracker	1		1+1
<b>Output (AC)</b>			
Rated Output Power (kW)	2.2	3	5
Max. Active Power (kW)	2.42	3.3	5.5
Rated Output Voltage/Range(V)		L/N/PE 220/230V (This may vary with grid standards)	
Rated Grid Frequency (Hz)		50 / 60 (Optional)	
Operating Phase		Single phase	
Rated AC Grid Output Current (A)	9.6	13	21.8
Max. AC Output Current(A)	10.6	14.4	24.0
Output Power Factor		0.8 leading to 0.8 lagging	
Total Harmonics Current Distortion (THDI)		<3%	
DC Injection Current (mA)		< 0.5%	
Grid Frequency Range		50/60Hz (+ -5)	
<b>Efficiency</b>			
Max. Efficiency		97.3%	
Euro Efficiency		96.9%	
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	280Wx310Hx184D (Excluding Connectors and Brackets)		330Wx323Hx190D (Excluding Connectors and Brackets)
Weight (kg)	6.35		8
Topology		Transformerless	
Internal Consumption		<1W (Night)	
Operating Temperature		-25 to + 60 °C	
Ingress Protection		IP65	
Noise Emission (Typical)		≤35dB	
Cooling Concept		Natural cooling	
Max. Operating Altitude without Derating	2000m		3000m
Warranty	10 Years, 1 Year on Accessories(Logger, ZED)		
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, EN50549, NRS097, RD 140, UNE217002, G98, G99, VDE-AR-N4105		
Operating Surrounding 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>			
Display	LCD1602		
Interface	RS485/RS232/Wifi/LAN		



Max. Efficiency  
98.5%



Low startup  
DC voltage



Max. DC  
overloading 30%



Wide AC  
voltage range

# GRID TIE INVERTER - THREE PHASE

Model	EGT-5K-3P2M	EGT-8K-3P2M	EGT-10K-3P2M	EGT-15K-3P2M	EGT-20K-3P2M	EGT-30K-3P2M	EGT-50K-3P4M
<b>Input (DC)</b>							
Max. PV Input Power(kW)	6.5	10.4	13	19.5	26	39	65
Max. PV Input Voltage(V)				1100			
Start-up Voltage(V)		140			250		
MPPT Voltage Range(V)		120-1000		200-1000	200-1100	200-1000	
Full Load MPPT Voltage Range(V)	350-850	480-850		480-850	500-850	480-850	450-850
Rated PV Input Voltage(V)				600			
Max. Input Short Circuit Current (A)		30+30		19.5+39	39+39	60+60	60+60+60+60
Max. Operating PV Input Current(A)		20+20		13+26	26+26	40+40	40+40+40+40
Strings per MPP Tracker		2/1+1		2/1+2	2/2+2	2/3+3	4/3+3+3+3
<b>Output (AC)</b>							
Rated AC Output Active Power(kW)	5	8	10	15	20	30	50
Max.AC Output Apparent Power(kVA)	5.5	8.8	11	16.5	22	33	55
Rated AC Output current (A)	7.6/7.3	12.2/11.6	15.2/14.5	22.7/21.7	30.3/29	45.5/43.5	75.8/72.5
Max.AC Output Current(A)	8.4/8	13.4/12.8	16.7/16.0	25/23.9	30.3/31.9	50/47.9	83.3/79.7
Rated Output voltage/range (V)				3L/N/PE 220/380V, 230/400V			
Grid Connection Form				3L+N+PE			
Rated Output Grid Frequency/range(Hz)				50/60 Hz(+/-5)			
Power Factor Adjustment Range				0.8 leading-0.8lagging			
Total Current Harmonic Distortion THDi				<3%			
<b>Efficiency</b>							
Max.Efficiency	98.2%	98.3%		98.5%	98.6%	98.7%	
Euro Efficiency	97.6%	97.8%		98.0%	98.1%	98.1%	
MPPT Efficiency				>99%			
<b>Equipment Protection</b>							
DC Polarity Reverse Connection Protection				Integrated			
AC Output Overcurrent Protection				Integrated			
AC Output Overvoltage Protection				Integrated			
AC Output Short Circuit Protection				Integrated			
Thermal Protection				Integrated			
DC Terminal Insulation Impedance Monitoring				Integrated			
DC component monitoring				Integrated			
Ground fault current monitoring				Integrated			
Power Network Monitoring				Integrated			
Island protection monitoring				Integrated			
Earth Fault Detection				Integrated			
DC Input Switch				Integrated			
Overvoltage Load Drop Protection				Integrated			
Residual Current (RCD) Detection				Integrated			
Surge Protection Level				TYPE II(DC),TYPE II(AC)			
<b>Interface</b>							
Communication Interface				RS485/RS232 /WiFi/LAN			
LCD/LED display				LCD 1602			
<b>General Data</b>							
Operating Temperature Range (°C)				-25 to +60			
Permissible Ambient Humidity				0-100%			
Permissible Altitude (m)				4000m			
Noise (dB)		<45 dB			≤ 50 dB		<50dB
Ingress Protection(IP) Rating				IP 65			
Cabinet Size W*H*D [mm]		283X463X178 (Excluding connectors and brackets)		332X472X203 (Excluding connectors and brackets)	362X527X220 (Excluding connectors and brackets)	434X570X243 (Excluding connectors and brackets)	
Weight [kg]		11		15	20	23	39
Warranty [year]				10 Years, 1 Year on Accessories (Logger, ZED)			
Type of Cooling		Natural cooling			Intelligent air cooling		
Grid Regulation				IEC 61727, IEC 62116.CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105			IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2



IP 65  
Enclosure



Eastman Solar App  
for Remote  
Monitoring 24x7



built-in zero  
port function

\*All specifications are subject to change without notice.