



GRID TIE INVERTER



MADE IN INDIA



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EASTMAN AUTO & POWER LTD.

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T&C APPLY

GRID TIE INVERTER - SINGLE PHASE

Model	EGT-2.2K-1P1M	EGT-3K-1P1M	EGT-5K-1P2M
Input (DC)			
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
Output (AC)			
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)		
Efficiency			
Max. Efficiency	97.3%		
Euro Efficiency	96.9%		
MPPT Efficiency	>99%		
Protection			
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		
General Data			
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		
Features			
Display	LCD1602		
Interface	RS48S/RS232/Wifi/LAN		



Max. Efficiency
98.5%



Low startup
DC voltage



Max. DC
overloading 30%



Wide AC
voltage range

*All specifications are subject to change without notice

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	
Input (DC)								
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	
Output (AC)								
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%							
Efficiency								
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%							
Equipment Protection								
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)							
Interface								
Communication Interface	RS485/RS232 /WiFi/LAN							
LCD/LED display	LCD 1602							
General Data								
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	



Type-II SPD Enabled
AC and DC Side



Eastman Solar App
for Remote
Monitoring 24x7



Built in zero
export function



IP 65
Enclosure

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