



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	Transtormerless			
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

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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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Authorized distributor: Loop Solar

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