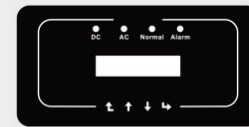


**ON GRID
INVERTER**

ES-50K-GT



**ON GRID
INVERTER**

ES-50K-GT

 3 Phase

 Max PV Array 65000 W

 MPPT Range 200~1000 VDC

 No. of MPPT

4

 Export Function

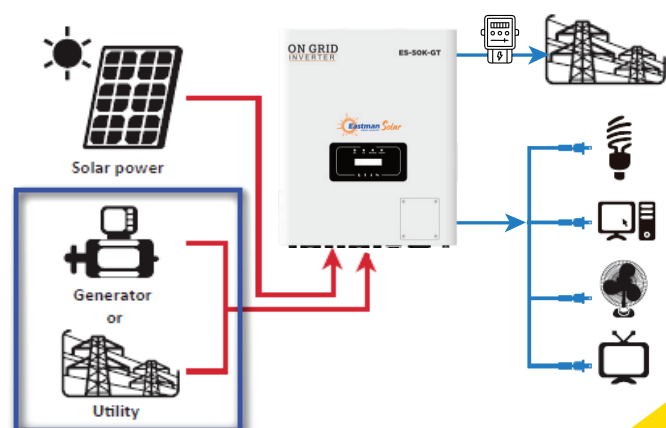
Optional

 Mobile Monitoring

Yes

Special Features :

- 4 MPPT trackers, Max. efficiency up to 98.6%
- Zero export application, VSG application
- String intelligent monitoring (Optional)
- Protection level IP65
- Wide output voltage range
- Anti-PID function (Optional)
- Type II DC/AC SPD





ON-GRID SOLAR INVERTER

Model	ES-50K-GT
INPUT SIDE	
Max. DC Input Power (kW)	65
Max. DC Input Voltage (V)	1100
Start-up DC Input Voltage (V)	250
MPPT Operating Range (V)	200-1000
Max. DC Input Current (A)	40+40+40+40
Max. Short Circuit Current (A)	60+60+60+60
No.of MPP Trackers	4
No.of Strings per MPP Tracker	3
OUTPUT SIDE	
Rated Output Power (kW)	50
Max. Active Power (kW)	55
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)	72.5
Max. AC Output Current (A)	79.7
Output Power Factor	0.8 leading to 0.8 lagging
Grid Current THD	<3%
DC Injection Current (mA)	<0.5%
Grid Frequency Range	47-52 or 57-62 (Optional)
EFFICIENCY	
Max. Efficiency	98.7%
Euro Efficiency	98.3%
MPPT Efficiency	>99%
PROTECTION	
DC Reverse-Polarity Protection	Yes
AC Short Circuit Protection	Yes
AC Output Overcurrent Protection	Yes
Output Overvoltage Protection	Yes
Insulation Resistance Protection	Yes
Ground Fault Monitoring	Yes
Anti-islanding Protection	Yes
Temperature Protection	Yes
Integrated DC Switch	Yes
Remote software upload	Yes
Remote change of operating parameters	Yes
Surge protection	DC Type II / AC Type II
GENERAL DATA	
Size (mm)	434W x 567H x 245D
Weight (kg)	33
Topology	Transformerless
Internal Consumption	<1W (Night)
Running Temperature	-25-65°C, >45°C derating
Ingress Protection	IP65
Noise Emission (Typical)	<45 dB
Cooling Concept	Smart cooling
Max. Operating Altitude Without Derating	2000m
Grid Connection Standard	VDE4105,IEC61727/62116,VDE0126,AS4777.2,CEI 21, EN50549-1, G98,G99, C10-11, UNE217002,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
FEATURES	
DC Connection	MC-4 mateable
AC Connection	IP65 rated plug
Display	LCD 240 160
Interface	RS485/RS232/Wifi/LAN