

# EUREKA ISO50B1

## 50kW Three Phase String Inverter



Max. 4 MPP trackers, Max. efficiency up to 98.7%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

# Technical Data

Model	Unit	IS050B1
<b>PV String Input Data</b>		
Max. PV Input Power	kW	65
Max. PV Input Voltage	V	1100
Start-up Voltage	V	250
MPPT Voltage Range	V	200-1000
Rated PV Input Voltage	V	600
Max. Operating PV Input Current	A	40+40+40+40
Max. Input Short Circuit Current	A	60+60+60+60
No. of MPP Trackers/ No. of Strings per MPP Tracker		4/3+3+3+3
<b>AC Output side</b>		
Rated AC Output Active Power	kW	50
Max. AC Output Apparent Power	kVA	55
Rated AC Output Current	A	75.8/72.5
Max. AC Output Current	A	83.3/79.7
Rated Output Voltage/Range	V	220/380V, 230/400V 0.85Un-1.1Un
Grid Connection Form		3L/N/PE
Rated Output Grid Frequency/Range	Hz	50/45-55, 60/55-65
Power Factor Adjustment Range		0.8 leading to 0.8 lagging
Total Current Harmonic Distortion THDi		<3%
DC Injection Current		<0.5%In
<b>Efficiency</b>		
Max. Efficiency		98.7%
Euro Efficiency		98.1%
MPPT Efficiency		>99%
<b>Equipment Protection</b>		
DC Polarity Reverse Connection Protection		Yes
AC Output Overcurrent Protection		Yes
AC Output Overvoltage Protection		Yes
AC Output Short Circuit Protection		Yes
Thermal Protection		Yes
DC Terminal Insulation Impedance Monitoring		Yes
DC Component Monitoring		Yes
Ground Fault Current Monitoring		Yes
Power Network Monitoring		Yes
Island Protection Monitoring		Yes
Earth Fault Detection		Yes
Overvoltage Load Drop Protection		Yes
Residual Current Detection (RCD)		Yes
AFCI		Yes
Surge Protection Level		TYPE II(DC), TYPE II(AC)
<b>Interface</b>		
Communication Interface		RS485/RS232
Monitor Mode		WIFI , GPRS/Bluetooth/4G/LAN(optional)
<b>General Data</b>		
Operating Temperature Range	°C	-25 to +60°C, >45°C Derating
Permissible Ambient Humidity		0-100%
Permissible Altitude	m	4000m
Noise	dB	< 65
Ingress Protection(IP) Rating		IP 65
Inverter Topology		Non-Isolated
Over Voltage Category		OVC II(DC), OVC III(AC)
Cabinet Size	WxHxD mm	434×570×243 (Excluding Connectors and Brackets)
Weight	kg	39
Warranty		5 Years
Type of Cooling		Intelligent Air Cooling
Grid Regulation		IEC 61727, IEC 62116
Safety EMC/Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

Above to the content shows that our company has the final right of interpretation