

Three Phase String Inverter

FE-OG-3P(30-50KW)



2 MPP trackers, Max. efficiency up to 98.6%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



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Technical Data

Model	FE-30-3P-OG	FE-33-3P-OG	FE-35-3P-OG	FE-36-3P-OG	FE-40-3P-OG	FE-45-3P-OG	FE-50-3P-OG
PV String Input Data							
Max. PV Input Power (kW)	39	42.9	45.5	46.8	52	58.5	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+40		40+40+40+40
Max. Input Short Circuit Current (A)	60+60				60+60+60		60+60+60+60
No. of MPP Trackers/ No. of Strings MPP Tracker	2/3+3				3/3+3+3		4/3+3+3+3
AC Output Side							
Rated AC Output Active Power (kW)	30	33	35	36	40	45	50
Max. AC Output Apparent Power (kVA)	33	36.3	38.5	39.6	44	49.5	55
Rated AC Output Current (A)	45.5/43.5	50/47.8	53/50.7	54.5/52.2	60.6/58	68.2/65.2	75.8/72.5
Max. AC Output Current (A)	50/47.9	55/52.6	58.3/55.8	60/57.4	66.7/63.8	75/71.7	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						
Efficiency							
Max. Efficiency	98.6%				98.7%		
Euro Efficiency	98.1%						
MPPT Efficiency	>99%						
Equipment Protection							
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						
Arc Fault Circuit Interrupter (AFCI)	Optional						
Power Network Monitoring	Yes						
Island Protection Monitoring	Yes						
Earth Fault Detection	Yes						
Overvoltage Load Drop Protection	Yes						
Residual Current (RCD) Detection	Yes						
Surge Protection Level	TYPE II(DC), TYPE II(AC)						
Interface							
Communication Interface	RS485/RS232						
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)						
General Data							
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating						
Permissible Ambient Humidity	0-100%						
Permissible Altitude (m)	4000m						
Noise (dB)	≤60				<65		
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated						
Over Voltage Category	OVC II(DC), OVC III(AC)						
Cabinet Size (WxHxD mm)	330×572×206 (Excluding Connectors and Brackets)				434×570×243		
Weight (kg)	28.7				39		
Warranty	10 Years						
Type of 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						
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						

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