

Three Phase Hybrid Inverter

FES-125K-HB



Long Back Up Capability

More than 6 hours backup power available



EPS Function

Less than 10ms switch time



High Performance

Support 100% unbalanced three-phase output



Efficiency

Max. efficiency upto 98.5%



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Technical Data

MODEL	FES-125K-HB
PV INPUT	
Max. Array Power [kW]	250
Max. Input Power [kW]	250
Withstand Voltage [V]	1000
Input Voltage Range [V]	180 ~ 950
Max. MPPT Input Current [A]	40
Max. MPPT Short Circuit Current [A]	50
MPPT Voltage Range [V]	180 ~ 850
Start-up Voltage [V]	180
No. of MPP Trackers	8
Strings per MPP Tracker	2
BATTERY SPECIFICATION	
Battery Type	LFP (LiFePO ₄)
Voltage Range [V]	180 ~ 950
Max. Charging/Discharging Current [A]	240 (80+80+80)
Battery Port	3
Communication	CAN*3
AC OUTPUT	
Nominal AC Power [kW]	125
Max. AC Output Power [kVA]	137.5
Rated AC Output Current (Per Phase) [A]	189.9
Max. AC Output Current (Per Phase) [A]	198.5
Nominal AC Voltage [V]	380/400, 3W+N+PE or 3W+PE
AC Voltage Range [Un]	0.8 ~ 1.2
Nominal AC Frequency [Hz]	50/60
Frequency Range [Hz]	50/60, ±5
Power Factor	0.8 Leading ~ 0.8 Lagging
THDi [%]	<3
AC INPUT	
Max. AC Input Power [kVA]	207
Max. Bypass Current [A]	300
Nominal AC Voltage [V]	380/400, 3W+N+PE or 3W+PE
Frequency Range [Hz]	50/60, ±5
EPS OUTPUT (LOAD)	
Max. AC Output Power [kVA]	137.5
Peak AC Output Power [kVA] (10s)	155
Nominal AC Voltage [V]	380/400, 3W+N+PE or 3W+PE
Nominal AC Frequency [Hz]	50/60
Switching Time [ms]	<10
THDv [%]	<3
EFFICIENCY	
European Efficiency [%]	98.1
Max. Efficiency [%]	98.5
PROTECTION	
DC Input Switch	Yes
Battery Reverse Polarity	Yes
PV Reverse Polarity	Yes
AC Overcurrent Protection	Yes
AC Output Short Circuit Protection	Yes
AC/DC Surge Protection	Class II
ISO Detection	Yes
Residual Current Detection	Yes
Ground Fault Detection	Yes
AFCI	Yes
Terminal Overtemperature Protection	Yes
String Current Detection	Yes
GENERAL SEPECIFICATION	
Dimensions (W*H*D) [mm]	730*1060*305
Weight [kg]	120
Operating Temperature [°C]	-30 ~ 60
Cooling Method	Smart Air Cooling
Operating Altitude [m]	4000
Humidity [%]	0 ~ 100
Noise [dB]	<70
Standby Consumption [W]	<60
DC-Link EV Charger Ready [kW]	20 ~ 50
Ingress Protection (IP) Rating	IP65
Topology	Non-Isolation
Display	LED, LCD, Wi-Fi+APP
Communication Ports	USB / RS485 / Bluetooth / Wi-Fi+LAN / 4G(Optional) / CAN

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