



KE-16KF5LSUF

- Integrated circuit breakers (Grid, load, generator, battery) and pv switch
- Single-phase full power output
- Integrated afci (arc fault circuit interrupter)
- Rsd compatible (rapid shutdown device)
- Ac coupling
- Independent smart load interface
- Mixed load operation
- Seamlessly connect to iHEMS load management system



Split-Phase Off-Grid Inverter Technical Parameters For The North American Grid

Model	KE-6KF5LSUF	KE-7KF5LSUF	KE-12KF5LSUF	KE-15KF5LSUF	KE-16KF5LSUF
Inverter Output					
Rated Output Power (W)	6000	7000	12000	15000	16000
Rated Output Voltage (V)	120/240				
Rated Frequency (Hz)	50/60				
Overload Capacity	110% 5min; 200% 5s		110% 5min; 150% 5s		
Transfer Time	10ms (Typical value); Max 15ms for single unit, max 30ms for parallel operation				
Max Parallel Units	6				
Total Voltage Total Harmonic Distortion (THDv)	<3% (Rated power)				
DC Current Output	<0.5% x Rated current				
Output Port Configuration	Load Output Ports		Primary Load Output Ports + Smart Load / AC Coupling Ports		
Battery Parameters					
Battery Type	Lead-acid or Lithium Iron Phosphate Battery				
Rated Battery Voltage (V)	48				
Voltage Range (V)	40~60				
Li-ion Battery Charging Strategy	BMS Adaptive				
Max Charging Current (A)	120		250	290	
Max Discharging Current (A)	120		250	290	
PV Input					
Number of MPPT Trackers	2/1+1		2/2+1	3/2+1+1	
Max Input Power (W)	9000	10500	18000	22500	24000
Max Input Current (A)	27+13.5		28+20	28+20+20	
Max Input Short-Circuit Current (A)	40+20		42+30	42+30+30	
Max Open-Circuit Voltage (V)	500		550		
MPPT Rated Voltage (V)	375		375		
MPPT Start-Up Voltage (V)	100		100		
MPPT Operating Voltage Range (V)	125~425		125 ~ 475		
Utility / Generator Input					
Input Interface	1		2		
Input Voltage Range (V)	90~280				
Input Frequency Range (Hz)	50/45-55, 60/55-65				
Bypass Overload Current (A)	45		100	160	
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Tracking Efficiency	99%				
Device Protection					
Integrated Protection	Over-temperature protection, overload protection, short-circuit protection, PV overvoltage protection, PV overcurrent protection, battery overvoltage protection,leakage protection, ground fault detection protection, surge protection, GFCI, AFCI, RSD compatible				
Surge Protection Level	DC Type II / AC Type III				
General					
Ingress Protection (IP) Rating	IP20				
Operating Temperature Range	-10~55°C (>45°C Derating)				
Noise Level @ 1m	≤45 @ 25°C (77°F)				
Type of Cooling	Intelligent Air Cooling				
Dimensions(HxWxD) (mm)	670x412x136		957x597x152		
Weight (kg)	16		51		
Operating Altitude(m)	< 2000				
Warranty	1 Year				
Communication					
Communication Port	Built-in: RS485 /CAN/Wi-Fi/Bluetooth; Option: 4G		Built-in: RS485/CAN ; Option 1: Wi-Fi + Bluetooth;Option 2: 4G + Bluetooth		
Certification					
Overview	UL STD.1741 , CSA-C22.2 No.107.1-16 , FCC SDoC Part 15B				

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