



IP66 Off - Grid Inverter

- Fully optimized insulation resistance detection technology
- Dual AC input and dual AC output ports
- MPPT tracking efficiency up to 99%
- Optional integration with Ktech iHEMS system
- Optional connectivity to Ktech RSD Cloud platform
- Optional mixed-loading capability
- Optional AFCI (Arc Fault Circuit Interrupter) protection
- Optional 10-year warranty coverage

IP66 Off - Grid Inverter Technical Data

KTECH®

Model	KE-8KD5L1EF	KE-10KD5L1EF	KE-12KD5L1EF
AC Input/Output Data			
Rated AC Input/Output Active Power (W)	8000	10000	12000
Rated AC Input/Output Current (A)	33.3	41.7	50
Max. AC Input/Output Current (A)	36.7	45.8	55
Peak Power (off-grid) (W)	2 Times Of Rated Power, 10s		
Power Factor Adjustment Range	0.9-1		
Rated Input/Output Voltage/Range (V)	220/230 0.88Un < U < 1.1Un		
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Grid Connection Form	L+N+PE		
Total Current Harmonic Distortion THDi	<3% (Rated power)		
DC Current Output	<0.5% x Rated current		
Conversion Time (Bypass and Inverter)(ms)	10		
Battery Input Data			
Battery Type	Lead-acid / Lithium Iron Phosphate Battery		
Max.Charging Current(A)	200		
Max.Discharging Current(A)	200		
Battery Voltage Range(V)	40-60		
Charging Strategy for Li-ion Battery	BMS adaptivity		
Number of Battery Input	1		
PV String Input Data			
No. of Circuits	2/2+2		
Max. PV Open-circuit Voltage (V)	550		
Start-up Voltage (V)	100		
Rated PV Voltage (V)	370		
MPPT Voltage Range (V)	125-425		
Max. PV Input Power (W)	12000	15000	18000
Max. Operating PV Input Current (A)	26+26		
Max. Input Short-Circuit Current (A)	44+44		
Efficiency			
Max. Efficiency	97.6%		
Euro Efficiency	96.5%		
MPPT Efficiency	>99%		
Equipment Protection			
Integrated	DC polarity reverse connection protection, AC output overload protection, thermal protection, AC output overvoltage protection, AC output short circuit protection, DC component monitoring, overvoltage load drop protection, ground current monitoring, grid monitoring, ground fault monitoring, DC input switch, DC terminal impedance monitoring, residual current monitoring (RCD), surge protection		
General Data			
Ingress Protection (IP) Rating	IP66		
Operating Temperature Range(°C)	-40~+ 60, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Type of Cooling	Intelligent Air Cooling		
Communication Port	RS485/CAN/Wi-Fi/Bluetooth/4G		
Dimensions(HxWxD)	638x363x230mm		
Weight	30kg		
Permissible Altitude(m)	2000		
Warranty	5 Years/10 Years		
Certification			
Overview	CE-LVD EN IEC 62109-1/-2,RoHS		

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