

# Off Grid Hybrid Solar Inverter

KM 1~5KW



## Technical Features:

- Pure sine wave inverter
- Output power factor 1
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Battery equalization for optimized battery performance and lifecycle
- Cold start function
- Parallel operation with up to 9 units only available for Axpert MKS 3KP/4KVA/5KVA\*

## Technical Specifications:

MODEL	KM 1K-12	KM 1K-24	KM 1K-48	KM 2K-24	KM 3K-24	KM 3KP-24	KM 3K-48	KM 4K-48	KM 5K-48	KM II 5K-48	KM 5KP-24
<b>RATED POWER</b>	1000VA/1000W			2000VA/2000W	3000VA/3000W	3000VA/2400W	3000VA/3000W	4000VA/4000W	5000VA/5000W	5000VA/5000W	5000VA/4000W
<b>PARALLEL CAPABILITY</b>	No	No	No	No	No	Yes, 9 units	No	Yes, 9 units	Yes, 9 units	Yes, 9 units	Yes, 9 units
<b>INPUT</b>											
Voltage	230 VAC										
Selectable Voltage Range	170-280 VAC (For Personal Computers) , 90-280 VAC (For Home Appliances)										
Frequency Range	50 Hz/60 Hz (Auto sensing)										
<b>OUTPUT</b>											
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%										
Surge Power	2000VA	4000VA	6000VA	8000VA	10000VA						
Efficiency (Peak)	90% - 93%	93%	90%	93%	93%	93%	90%	90%	90%		
Transfer Time	10 ms (For Personal Computers) , 20 ms (For Home Appliances)										
Waveform	Pure sine wave										
<b>BATTERY</b>											
Battery Voltage	12 VDC	24 VDC	48 VDC	24 VDC	24 VDC	24 VDC	12 VDC	12 VDC		12 VDC	12 VDC
Floating Charge Voltage	13.5 VDC	27 VDC	54 VDC	27 VDC	27 VDC	27 VDC	13.5 VDC	13.5 VDC	54 VDC Max: 58VDC (optional 64VDC, please check with sales)	13.5 VDC	13.5 VDC
Overcharge Protection	15.5 VDC	31 VDC	62 VDC	31 VDC	31 VDC	30 VDC	15.5 VDC	15.5 VDC	60 VDC (optional 66VDC, please check with sales)	15.5 VDC	15.5 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>											
Maximum PV Array Power	500 W	600 W	900 W	600 W	600 W	1000 W	900 W	4000 W	4500 W	2000 W	
MPPT Range @ Operating Voltage	15~80VDC	30~66VDC	60~88VDC	30~66VDC	30~66VDC	30~80VDC	60~88VDC	60 VDC ~115 VDC	120~430VDC	30~115VDC	
Maximum PV Array Open Circuit Voltage	102 VDC	75 VDC	102 VDC	75 VDC	75 VDC	100 VDC	102 VDC	145 VDC	450 VDC	145 VDC	
Maximum Solar Charge Current	40A	25A	18 A	25A	25A	40A	18 A	80 A	80A	80A	
Maximum AC Charge Current	20A	20 A	15 A	30 A	30 A	60A	15 A	60 A	80A	60A	
Maximum Charge Current	60A	45A	33 A	55 A	55 A	100A	33 A	140A	80A	140A	
<b>PHYSICAL</b>											
Dimension, D X W X H (mm)	95x240x316	100 x 272 x 355				100x272x385	120 x 295 x 468			180x310x475	
Net Weight (kgs)	5.2	6.8	7.0	7.4	7.5	7.4	12.5	13.5	11.0	12.5	
<b>OPERATING ENVIRONMENT</b>											
Humidity	5% to 95% Relative Humidity(Non-condensing)										
Operating Temperature	0°C to 55°C										
Storage Temperature	-15°C to 60°C										

\*When output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%.  
Product specifications are subject to change without further notice

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