



# Energy Storage System

VERTICAL 5KW INVERTER

## Why come to us for a solution?

- Quality products
- Wide range of products
- Nationwide backup
- Locally produced UPS's
- Competitively priced
- Unique design
- Good value for money

The Energy Storage System adopts modular technology with an aesthetically pleasing design. The lithium iron phosphate batteries are high performance and designed to give a long service life. Each energy storage module is internally integrated with an intelligent BMS system. This 5KW Inverter comes complete with either a 5 or 10kWh battery bank.



## APPLICATION

Home, Business, Telecom, Electric Power, Off Grid, Emergency Lighting, Emergency power, Solar

## FEATURES

- Lithium iron phosphate - LiFePO4
- >6000 cycles @ 80% D.O.D.
- Floating life of up to 10 years
- Wide input voltage range
- Pure sine wave
- Intelligent management system
- Up to 2 batteries in parallel
- Modular structure design
- LCD Screen
- 5KW rated power
- 5.12-10.24kWh stackable battery capacity
- Wall mount



# Energy Storage System

5KW INVERTER

MODEL	5KESS-5KW-V	5KESS-10KW-V
<b>BATTERY</b>		
BATTERY MODULE	1	2
BATTERY ENERGY	5.12kWh	10.24kWh
BATTERY CAPACITY	100Ah	200Ah
BATTERY TYPE	LifePO4	
BATTERY RATED VOLTAGE	51.2V	
BATTERY WORKING VOLTAGE RANGE MAXIMUM	44.8-57.6V	
CHARGING CURRENT	100A	
MAXIMUM DISCHARGING CURRENT	100A	
DOD	80%	
PARALLEL QUANTITY	1	2
DESIGNED LIFE-SPAN	10 Years	
<b>PV CHARGE</b>		
SOLAR CHARGE TYPE	MPPT	
MAXIMUM OUTPUT POWER	5KW	
PV CHARGING CURRENT	80A	
PV OPERATING VOLTAGE RANGE	120-500V	
MPPT VOLTAGE RANGE	120-450V	
<b>AC CHARGE</b>		
MAXIMUM CHARGE POWER	3150W	
AC CHARGING CURRENT	0-60A	
RATED INPUT VOLTAGE	220-230VAC	
INPUT VOLTAGE RANGE	90-280VAC	
<b>INVERTER OUTPUT</b>		
RATED OUTPUT POWER	5KW	
MAXIMUM PEAK POWER	10KVA	
POWER FACTOR	1	
RATED OUTPUT VOLTAGE	230VAC	
FREQUENCY	50Hz	
AUTO TRANSFER TIME	<15ms	
THD	<3%	
<b>GENERAL DATA</b>		
COMMUNICATION	RS485/CAN	
CHARGING TEMPERATURE RANGE	0-45°C	
DISCHARGING TEMPERATURE RANGE OPERATING	-10°C - 45°C	
HUMIDITY	5%-85%	
NOMINAL OPERATION ALTITUDE	<1500m	
COOLING MODE	Force-Air Cooling	
NOISE	60dB(A)	
INGRESS PROTECTION RATING	IP20	
RECOMMENDED OPERATION ENVIRONMENT	Indoor	
INSTALLATION METHOD	Vertical	
CERTIFICATE	UN38.3, MSDS, EN55032, EN55024, EN61000-3-2, EN61000-3-3	
UNIT DIMENSION (WDXH) MM	600x185x1390	600x185x1890
PACKAGED DIMENSION (WDXH)	630x420x540	630 x 630 x 540
NET WEIGHT	80Kg	127Kg
GROSS WEIGHT	82Kg	130Kg

