

Intelligent Inverter & AVR



PURE SINE WAVE INVERTER

SHAHEEN ENTERPRISE



Advancing Power

RENEWABLE ENERGY | ENERGY CONSERVATION | PROJECT CONSULTING

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UZMAN 1K/2K/3K UZMAN 4K/5K

UZMAN



Sinewave High Efficiency Inverter Charger

- > Pure sine wave inverter
- > Selectable input voltage range for home appliances and personal computer
- > Adjustable battery charging current based on applications
- > Configurable AC/Solar Charger priority via LCD setting
- > Compatible to mains voltage or generator power
- > Auto restart while AC is recovering
- > Overload and short circuit protection
- > Smart battery charger design for optimized battery performance
- > Cold start function

User-configurable Operation

UZMAN is designed to offer highly flexibility for user operation. Via LCD operation, users can configure AC/solar charging priority, battery charging current, and acceptable input voltage range.



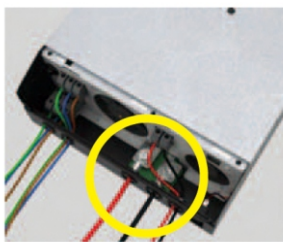
User-configurable Operation

UZMAN is designed to easily be mounted and all connections are easily accessible on one side.



Comprehensive Display

A comprehensive display including four operation buttons, three indicators and one LCD display to indicate the operating status and input/output power information.



Cable Management

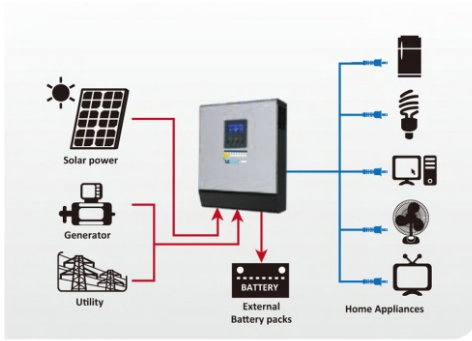
It will cluster all cables and keep all cables connected to the unit neat and organized.



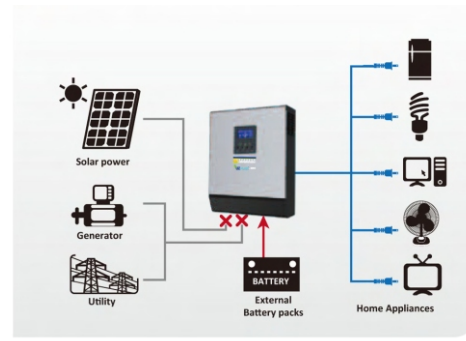
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System Diagram:






1 As Hybrid Power System



2 As Power backup system



UZMAN 1KVA/2KVA/3KVA/4KVA/5KVA INVERTER CHARGER SPECIFICATION

MODEL	UZMAN 1K	UZMAN 2K	UZMAN 3K	UZMAN 4K	UZMAN 5K
					
Rated Power	1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W	4000 VA / 3200 W	5000 VA / 4000 W
INPUT					
Voltage	230 VAC	230 VAC	230 VAC	230 VAC	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)				
OUTPUT					
AC Voltage Regulation (Batt. Mode)	230 VAC ± 15%	230 VAC ± 15%	230 VAC ± 15%	230 VAC ± 15%	230 VAC ± 15%
Surge Power	2000 VA	4000 VA	6000 VA	8000 VA	10000 VA
Efficiency (Peak)	93 %	93 %	93 %	93 %	93 %
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)				
Waveform	Pure Sine Wave				
BATTERY					
Battery Voltage	12 VDC	24 VDC	24 VDC	48 VDC	48 VDC
Floating Charge Voltage	13.5 VDC	27 VDC	27 VDC	54 VDC	54 VDC
Low Battery Alarm Voltage	10.5 VDC	21 VDC	21 VDC	42 VDC	42 VDC
Shutdown Voltage	10 VDC	20 VDC	20 VDC	40 VDC	40 VDC
Overcharge Protection	15 VDC	30 VDC	30 VDC	60 VDC	60 VDC
Maximum Charge Current	10 A or 20A	20 A or 30A	20 A or 30A	20 A or 30A	20 A or 30A
SOLAR CHARGER (OPTION)					
Charging Current	50 A	50 A	50 A	50 A	50 A
Maximum PV Array Open Circuit Voltage	125 VDC	125 VDC	125 VDC	125 VDC	125 VDC
Standby Power Consumption	1 W	2 W	2 W	2 W	2 W
PHYSICAL					
Dimension, D X W X H (mm)	92 x 272 x 347	92 x 272 x 347	92 x 272 x 347	110 x 300 x 455	110 x 300 x 455
Net Weight (kgs)	4.0	4.5	5.0	7.5	8.5
OPERATING ENVIRONMENT					
Humidity	5% to 95% Relative Humidity (Non-condensing)				
Operating Temperature	0 °C to 55 °C				
Storage Temperature	-15 °C to 60 °C				

* Product specification are subject to change without further notice.