

OFF-GRID APPLICATIONS: SOLAR KIT COMPONENTS

JUPITER

Range of sinusoidal inverters for isolated systems

Description



Jupiter inverters made by Zigor for off-grid applications are the appropriate systems to manage the power from batteries and offer a sinusoidal AC output ensuring the stability of the supply.

The range of Jupiter inverters made by Zigor can be used either built into energy systems or on an individual basis. They are capable of protecting batteries against deep discharges that might reduce the service life of them.

They are designed to ensure correct operation under aggressive environmental conditions, thanks to their broad range of operating temperatures.

The Jupiter range output power, from 350 to 3000 W and input voltages of 12/24/48V; allows a great deal of flexibility in individual use and can be easily integrated into power systems.



Jupiter

Features

- > Power range (350-3000 W)
- > Appropriate for all loads
- > Excellent overload capacity (200%)
- > High reliability
- > High performance
- > Protection against battery (LVD)
- > Disconnection due to battery under/overvoltage
- > Protection against:
 - Over-temperature
 - Short-circuit
 - Overload
 - Under/Overvoltage
 - Inverse polarity
- > Easy connection
- > Include standard outlet connections
- > Reduced consumption in stand-by
- > Optimum solution for isolated applications
- > Maximum efficiency
- > Withstands reactive loads
- > Pure sinusoidal wave form
- > Stand-alone operation
- > Easy to handle

Applications

- > Isolated applications
- > Street lighting
- > Rural Electrification
- > Signposting, traffic
- > Pumping systems
- > Relay Stations
- > Telecommunications and remote signal measurement

on-grid solar plants

mid voltage solar plants

hybrid generation

energy saving

telecom back up

wind energy



ELECTRICAL CHARACTERISTICS

Model	Jupiter 350		Jupiter 700		Jupiter 1000			Jupiter 2000			Jupiter 3000	
Nominal power	350W		700W		1000W			2000W			3000W	
Power peak	700W		1400W		2000W			4000W			6000W	
Input voltage	Range of operating voltages											
12Vdc	10,5 ~ 15Vdc		10,5 ~ 15Vdc		10,5 ~ 15Vdc			10,5 ~ 15Vdc			-	
24Vdc	21 ~ 30Vdc		21 ~ 30Vdc		21 ~ 30Vdc			21~30Vdc			21 ~ 30Vdc	
48Vdc	-		-		42 ~ 60Vdc			42 ~ 60Vdc			42 ~ 60Vdc	
Output voltage	230VAC ± 3%											
Output frequency	50 / 60Hz ± 0.05%											
Wave form	Pure sinusoidal											
Harmonic distortion	THD < 3%											
Tensión	12V	24V	12V	24V	12V	24V	48V	12V	24V	48V	24V	48V
Efficiency	91%	93%	91%	93%	91%	93%	94%	91%	94%	95%	93%	94%

GENERAL FEATURES

Protections	Overload/Overvoltage/Undervoltage/Overtemperature/Short-circuit/Inverse polarity											
Indicators LED	Input/Load/Failure											

ENVIRONMENTAL AND MECHANICAL FEATURES

Dimensions (WxHxD) (mm)	185x147x60	295x187x72	383x182x88	422x208x166	452x208x166
Weight (kg)	1,4	2,7	4	9	9,8
Operating temperature	between 0 & +40°C				
Storage temperature	between -30 & +70°C				

STANDARDS

Certificates	CE Marking				
Directives	73/23/CEE-93/68/CEE 89/336/CEE				
Standards	EN60950-1, EN55022, EN61000-3-2, EN61000-3-3, EN55024				

JUPITER MODEL REFERENCES

Voltage	Models					
	Jupiter 350	Jupiter 700	Jupiter 1000	Jupiter 2000	Jupiter 3000	
12 V	18706	18707	18723	18727	-	
24 V	18721	18722	18708	18709	18720	
48 V	-	-	18724	18719	18725	

These specifications may be changed without notice