

OFF-GRID APPLICATIONS: SOLAR KIT COMPONENTS

VENUS

Range of PWM regulators for isolated photovoltaic systems

Description



The Venus range of regulators made by Zigor controls and optimises the energy production from solar panels for storage in battery avoiding overloading.

Venus regulators are the appropriate systems to manage power from PV panels to control battery charge, safeguard their service life and offer a protected output for the DC consumption.

The range of Venus regulators can be used in as many different fields as there are needs for isolated power generating systems. They are designed to manage power in 12/24 V systems.

Designed to ensure correct operation under aggressive environmental conditions, thanks to their broad range of working-temperature and natural convection cooling, the range of Venus regulators made by Zigor guarantee its functionality.



Venus 8

Venus 20

Features

- > PWM monitored battery charging control
- > Temperature compensated battery charging
- > Reinforced charging
- > Final charging voltage
- > Electromagnetic compatibility (EMC)
- > Automatic reconnection of loads
- > Low current consumption at nights
- > User interface by means of LED
- > On-the-spot adjustment of parameters
- > Operation in aggressive atmospheres
- > Protections:
 - Overload
 - Inverse polarity
 - Protection against deep discharge (LVD)
 - Protection against open circuit
- > Control of battery discharge

Applications

- > Isolated photovoltaic sys.
- > Domestic consumptions
- > Water pumping
- > Battery charging
- > Telecom backup
- > Illumination
- > Traffic, signposting
- > Rural, camping

on-grid solar plants

mid voltage solar plants

hybrid generation

energy saving

telecom back up

wind energy



ELECTRICAL CHARACTERISTICS

Model	Venus 8	Venus 20
Reference	20030	20033
Nominal current	8A	20A
Battery voltage	12 / 24Vdc	
PV maximum voltage	40 Vdc	
Recommended PV voltage	18 / 31 Vdc	

GENERAL FEATURES

Protections	Overvoltage, Sub-voltage, Short-circuit, Inverse polarity	
Under-voltage	10,7 / 21,4 Vdc 2%	
Standby consumption	< 5mA	
Interface	2 led	
Protection type	IP20	
Temperature sensor	Integrate	External wire

ENVIRONMENTAL AND MECHANICAL FEATURES

Operating temperature	-25°C +50°C	
Cooling	Natural convection	
Dimensions (WxHxD) (mm)	95x95x35	190x100x85
Weight (gr)	214	330

STANDARDS

Certificates	CE Marking	
Directives	73/23/CEE-93/68/CEE 89/336/CEE	
Standards	EN 50081-1, EN 50082-1	

These specifications may be changed without notice.