



POWER PV630 Photovoltaic Inverter

- Maximum efficiency \geq 98.7%.
- Permanent power 630 kVA at 50ºC.
- Robustness and reliability.
- High MTBF.
- -Latest MPPT technology.
- Latest generation IGBT modules (Tj = 175°C).
- Protection devices in both AC and DC.
- Adjustable power factor (0.95 inductive 0.95 capacitive)
- Voltage gap compensation.

SUPSONIK POWER PV630 photovoltaic inverters designed for direct connection to medium voltage transformer is an efficient and robust solution in medium and large photovoltaic installations.

Thanks to the latest modulation technology, the new generation of IGBT transistors and the excellent control algorithm used, PV630 inverters generate - with a maximum performance - a perfect sine wave from direct current of solar panels. Maximum performance \geq 98.7 % and European performance \geq 98.5 %.

It is an equipment with excellent features like full power at 50 °C, safe protection devices, high MTBF, minimal presence of harmonic

distortion even at low power, etc.

General description

POWER PV630 devices are easy to use and have intuitive software tools that allow to configure all inverter parameters as well as monitor and display them through a backlit graphic display, RS-485 communication under MODBUS RTU protocol. Optional data logger with remote control for sending information via high speed LAN connection (TCP / IP).

The design of our machines and the process of product manufacture and quality testing guarantee our customers' maximum generation, high efficiency in the conversion of energy and compliance with the directives and standards applicable in the European Union.

SUPSONIK offers the possibility of adapting each equipment to the specific needs of the customer.

Supsonik S.L. has a wide range of photovoltaic equipment, from **33 kVA to 1 MVA** maximum power. For further information please contact the manufacturer.

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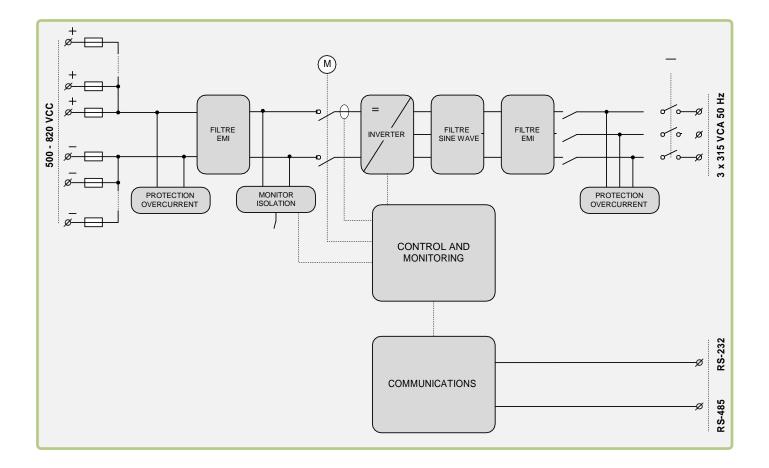
POWER PV630 Series

PHOTOVOLTAIC DC INPUT	
Rated power	642 kW
Peak power	710 kWp
MPPT Voltage range	500 V – 820 V*
Maximum input voltage	1000 V
Maximum DC voltage	1422 A
Number of DC inputs	8 + 8
AC OUTPUT	
Rated power at 50°C	630 kVA
Rated power at 30°C	700 kVA
Rated voltage AC ± 10%	3 x 315 V
Frequency	50/60 Hz
Rated current	1154 A
Power factor	0.95 inductive - 0.95 capacitive
Maximum harmonic distortion	< 3%
ENERGY CONSUMPTION	
Internal consumption in operation	≤ 1600 W
Stand-by consumption	≤ 110 W
Auxiliary external power supply	3 x 400 V, 3 x 230 V
PERFORMANCE	
Maximum performance	> 98.7%
European performance	≥ 98.5%
ENVIRONMENTAL CHARACTERISTICS	ID20 (entional ID22)
Protection degree	IP20 (optional IP23)
Working temperature	-15ºC to 50ºC
Storage temperature	-25ºC to 65ºC
Relative humidity	15% to 95% with no condensation
Altitude	1000 m.
Cold air	6200 m ³ /h
DIMENSIONS AND WEIGHT	
Dimensions (Width x Depth x Height)	3556 x 800 x 2200 (mm)
Weight	2050 Kg
PROTECTIONS	• In case of grid overvoltage / undervoltage according to RD 1663/2000.
Protections	 Grid overfrequency / underfrequency detection according to RD
	1663/2000.
	 Manual network disconnection.
	• • Against reverse polarization.
	• Insulation fault and DC voltage ground leakage.
	 Against overloads.
	 Against output short circuit
	 Against asymmetric and magnetizing currents.
	 Motorized isolator switch for DC side protection.
	Magnetothermal switch for AC side protection.
	 Fuse in positive and negative for each input. Contactor for mains isolation
	 Contactor for mains isolation. Preload contactor.
USER INTERFACE	
• OP monitoring with display.	
• MODBUS, PROFIBUS, TCP / IP communications prot	tocol via RS485 and ethernet.
• PC communications software for monitoring (graph	
CERTIFICATES AND STANDARDS	
EC Marking	EMC directive 61000-6-2, 61000-6-3 Low voltage directive EN 50178

	voltage directive EN 50178
Compliance with Royal Decree	RD 1663/2000
Declaration of conformity ENEL-DK5940	

* Minimum Vdc with rated Vac \pm 5% and Cos (ϕ) = 1

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