

IRON

INVERTER



DC/AC SINGLE PHASE OR THREE PHASE OUTPUT

Iron series are Industrial, Heavy Duty Inverters designed to supply critical AC Loads with stabilised continuous voltage. Products can be easily customized depending on the peculiar Customer request.

Transformer for AC/DC galvanic separation are included Microprocessor control and Digital control panels

MAIN OPTIONS

- Static and manual Switch
- Bypass Transformers and Voltage Regulators
- AC Distribution Panels
- Redundant ventilation
- Communication Port: USB or RS485 or Ethernet TCP/IP with Modbus protocol
- Tropicalization

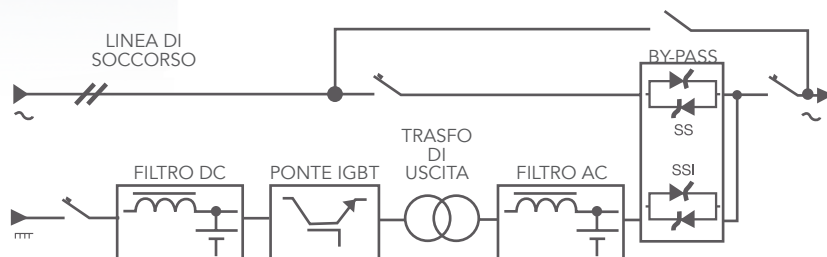
MAIN FEATURES

- Industrial Layout
- Static Conversion
- Microprocessor control
- Digital control panel
- Reduced output THD with not linear load - IGBT technology bridge (PWM)
- Natural convection cooling
- Easy maintenance/front access
- Insulation: input/output galvanic insulation

MAIN OPTIONS

- Static and manual Switch
- Bypass Transformers and Voltage Regulators
- AC Distribution Panels
- Redundant ventilation
- Communication Port: USB or RS485 or Ethernet TCP/IP with Modbus protocol
- Tropicalization

SINGLE-LINE DIAGRAM



IRON-M (Single-phase) and IRON-T (Three-phase)

OUTPUT	VOLTAGE	Single-phase 230 Vac or three-phase 400Vac (Others on demand)
	FREQUENCY	50 ÷ 60 Hz
	NOMINAL POWER	single-phase max 25KVA (Vbattery=110Vcc) single-phase max 50KVA (Vbattery=220Vcc) three-phase max 45KVA (Vbattery=110Vcc) three-phase max 90KVA (Vbattery=220Vcc)
	STATIC REGULATION	±1%
	DYNAMIC REGULATION	<5% with recovery to 2% in 40 ms
	ARMONIC DISTORTION	≤ 3% with carico linear / ≤ 5% with carico non linear CF 3:1
	OVERLOAD	110% Pn for 2h - 125% for 10 min - 150% for 10 sec
	PROTECTIONS	Overvoltage, Overload
INPUT	NOMINAL VOLTAGE (V)	110, 220 Vcc (other on demand)
	RANGE (VOLTAGE)	-20% +40%
	BY-PASS EMERGENCY LINE INPUT VOLTAGE	single-phase 230Vac ±10% or three-phase 400Vac ±10% (other on demand)
	INRUSH CURRENT	<8 In
	PROTECTIONS	Overvoltage, Undervoltage
GENERAL	COOLING SYSTEM	Natural convection cooling (depending on the powers)
	OPERATING TEMPERATURE	-10°C + 50°C
	RELATIVE HUMIDITY	≤ 95% a 40°C
	ALTITUDE	≤ 1000 m
	ACOUSTIC NOISE	≤ 60dbA a 1 meter
	EFFICIENCY AT FULL LOAD	≥ 88%
	MTBF	140.000 hr A 30 °C
STANDARDS	MARKING	CE
	PROTECTION DEGREE	IEC 60529
	EMC	EN 61000-6-2 EN 61000-6-4
	SAFETY	IEC EN 50178
	STATIC CONVERTERS	EN 60146
PROTECTION DEGREE	IP20 (other on demand)	
COLOR	RAL 7035 (other on demand)	



Via Gaetano Donizetti, 109/111 - 24030 Brembate Di Sopra (BG) - ITALIA
Geller Business Centre - D2 Building

Phone **+39 035 4379962** Fax **+39 035 592935**
info@zutronic.it - **www.zutronic.it**

