

AC/AC SINGLE PHASE OR THREE PHASE OUTPUT UPS WAVE SERIES



Wave series are Industrial, Heavy Duty ON-LINE Double Conversion UPS 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 and static and manual By-Pass is included

APPLICATIONS:

Oil&Gas

Petrochemical

Power & Utilities

Industry

Hydroelectric and Geothermal plant

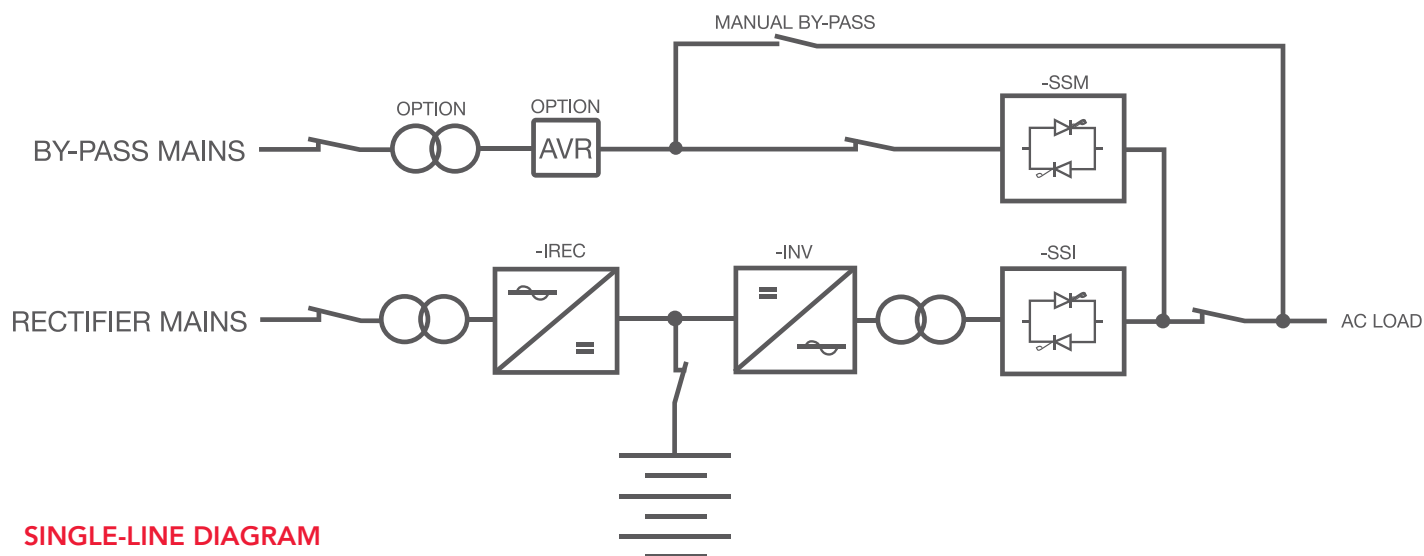


FEATURES:

- Industrial Layout
- ON_LINE Static Double Conversion
- Microprocessor control
- LCD Multifunctional control panel
- Reduced output THD with not linear load
- IGBT technology bridge (PWM) – (Inverter)
- Battery voltage Temperature compensation
- Easy maintenance/front access
- Insulation: input/output galvanic insulation

DATA SHEET

	MODEL	WAVE
AC INPUT	RATED VOLTAGE	3Ph 400Vac 50/60Hz (other options available upon request)
	POWER FACTOR	0,8 @ full load
	THD	≤ 30% typ.
AC OUTPUT	OUTPUT VOLTAGE	1Ph 230 Vac / 3Ph 400Vac 50/60 Hz (other options available upon request)
	BY-PASS EMERGENCY LINE INPUT VOLTAGE	1Ph 230Vac ±10% or 3Ph 400Vac ±10% (other options available upon request)
	NOMINAL POWER (COSPFI=0,8)	1Ph max 25KVA (Battery=110Vdc) - 1Ph max 50KVA (Battery=220Vdc) 3Ph max 45KVA (Battery=110Vdc) - 3Ph max 90KVA (Battery=220Vdc)
	STATIC STABILITY	±1%
	DYNAMIC STABILITY	± 5% (load step) with recovery to 2% in 40 ms
	TOTAL HARMONIC DISTORTION (THD)	≤ 2% with linear load / ≤ 5% with not linear load CF 3:1
	OVERLOAD	105% permanent - 125% for 10 min - 150% for 1 min. 200% for 100 ms
	PROTECTIONS	Over-voltage, Under-voltage
DC LINK	DC VOLTAGE	110Vdc (90-150Vdc) /220Vdc (180-300Vdc)
CONTROL & SIGNALISATION	MICROPROCESSOR	High Performance 8-Bit Microcontroller
	LCD PANEL	Backlit graphic LCD for meters, alarm and status messages
	MIMIC PANEL	Principle block diagram of the UPS with 9 integrated LED
	SIGNALLING LED	Inverter normal, Inverter Fault, Rectifier normal, Rectifier Fault
	VOLT FREE SIGNALLING CONTACTS	AC input supply failure, Rectifier Failure, DC voltage low,/Hi, Battery discharging, Battery disconnected, Inverter failure, Inverter overload, Inverter over temperature, Ac output voltage LOW/HI, Ventilation failure, DC earth fault (option)
CONTROL & SIGNALISATION	COOLING METHOD	Cabinet: Natural - Semiconductor heat sink: Fan assisted
	TEMPERATURE (WORKING)	0°C + 40°C not condensing
	RELATIVE HUMIDITY	≤ 95% a 40°C
	ALTITUDE	≤ 1000 m without derating
	ACOUSTIC NOISE	≤ 65-70dbA at 1 meter
	EFFICIENCY AT FULL LOAD	≥ 88%
	MTBF	140.000 hr at 30 °C
	DEGREE OF PROTECTION	IP20 (other options available upon request)
	COLOUR	RAL 7035 (other options available upon request)
	ACCESS	Front Door
	MARKING	CE
STANDARDS	DEGREE OF PROTECTION	IEC 60529
	EMC	EN 61000-6-2 EN 61000-6-4
	SAFETY	IEC EN 50178
	SEMICONDUCTOR CONVERTERS	EN 60146



SINGLE-LINE DIAGRAM

MAIN OPTIONS

- 12 Pulse rectifier
- Bypass line isolator
- Transformer for AC/DC galvanic separation
- Bypass Transformers and Voltage Regulators
- AC & DC Distribution Panels
- Redundant ventilation
- Dual Parallel Operation
- Communication Port: USB or RS485 or Ethernet TCP/IP with Modbus protocol

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