

NETWORK

OPTIMAL SERIES

On-line UPS double conversion with galvanic isolation from 6 to 20 KVA

Description

The Optimal series UPS guarantee total protection for powers ranging from 6kva to 20kva against any anomaly in the mains electricity network during their operation. With On-Line Double Conversion technology, as the supply voltage to loads is provided in each case via the inverter stage with galvanic isolation.

Advanced PWM Technology allows a voltage and current adjusted signal to be available at each moment in time, free of harmonics, noises and interferences. Information on the status of the system is presented locally by means of LED signalling and a LCD screen with different menus. Information on the unit can be also managed remotely through its powerful software.



OPTIMAL SERIES

Performances

- > On-line UPS double conversion with galvanic isolation
- > Microprocessor digital control technology
- > Power: 6, 10, 15 and 20KVA
- > Galvanic isolation by output transformer
- > RFI filler
- > Reduced harmonic distortion of output signal
- > Wide input voltage range
- > Protections against overloads, short-circuits & low battery voltage
- > Software included for system monitoring
- > Possibility of extended autonomies
- > RS232/RS485 connection ports
- > LCD display: information about status of UPS
- > SNMP card optional /RS232 ethernet converter

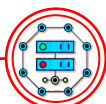
Applications



Domestic Use



Data Centers



Network & Server



Industrial controls & Process Automation



Medical Equipment



Building Automation



Elevator & Escalator

GENERAL SPECIFICATIONS

Model	Optimal 6	Optimal 10	Optimal 15	Optimal 20
Power KVA	6	10	15	20

GENERAL

Technology	On Line, double conversion with galvanic isolation			
Efficiency	>85%			
Overload	125%- 1 min-150% for 20 ms		125%- 1 min-150% for 0,5 sec	

INPUT

Voltage range	170~270Vac			
Frequency	50 Hz \pm 5			

OUTPUT

Power (KVA/KW)	10/8	20/16	30/24	40/32	50/40
Voltage	220Vac \pm 2				
Output frequency	50Hz \pm 0,5 (battery mode)				
Type of wave	Pure sinewave				
Harmonic distortion	THD <3% (linear load and on line)				
Power factor	0.8				
Crest factor	3:1				

BATTERIES & AUTONOMY

Standard battery	Pb VRLA (lead battery with anti-leak seal), 192 VDC			
Autonomy	Up to many hours (depending on connected load)			
Charge time	Depending on battery			

INDICATORS

LCD display	Operating load/ Battery status and voltage/ Input and output voltage measurement / Input and output frequency measurement/Supplied power			
Leds	Mains on/ By-pass /Inverter/Low battery/Overload/UPS failure			
Acoustics	Mains failure, overload, low battery			

COMMUNICATION

Control software	UPSilon 2000			
Communications	RS232/ RS485 Connections and dry contacts			
Indicators	Automatic functions checking: voltage, input/output frequency, load status, battery capacity, temperature, historic events, system analysis,7 alarms type: Beeper, network, e-mail, SMS, acoustic, telephone, windows warning			
SNMP card (optional)	SNMP Ethernet Converser Optional			

PROTECTION

Protections	Current limitation, overload, short-circuit & over-temperature			
Manual bypass	No			
RFI filter	Yes			

STANDARDS

Marks	CE			
Directives	EN 50091-2:1996 , EN 50091-2			

OTHERS

Operation temperature	0-40°C			
Relative humidity	0-95% (non condensing or ice)			
Altitude without decreasing power	1000 Over sea level			
Acoustic level	<55dBA	\leq 60dBA		
Dimensions WxDxH-mm	270x590x750	305x596x890	305x596x890	405x770x955
UPS Weight - Kgs (192V)	85 (Batteries included)	120	130	197

* External batteries, consult weights and dimensions for other autonomies.

Specifications may be changed without notice