

## INDUSTRIES AND DATA CENTERS

### WIN STAR SERIES

On-line UPS double conversion with galvanic isolation from 6 to 300KVA

#### Description

The Win Star series UPS are high performance power supply systems with three-phase input and three-phase output and galvanic isolation by high performance inverter output transformer designed to supply high-quality power on a permanent basis.

Advanced diagnostics and unit information allow users to monitor system parameters and alarms, check the status of the battery and provide access to the history of events through the system software or multi-language screen.



Win Star Series

#### Performances

- > On-line UPS double conversion
- > Three-phase input/three-phase output
- > IGBT inverter & DSP control technology
- > Power: from 6 to 300 KVA
- > Galvanic insulation by output transformer
- > Reduced harmonic distortion
- > RFI filter
- > Acoustic and luminous signaling
- > Reduced harmonic distortion of output signal
- > High efficiency
- > Output power factor 0.9 (PF 1 optional)
- > Software included for System Monitoring
- > Extended battery options available
- > RS232/ SNMP-RJ45
- > GPRS module for mobile network remote monitoring (optional)
- > Built-in parallel redundancy kit
- > Touch screen LCD display
- > Manual bypass
- > Battery self test

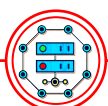
#### Applications



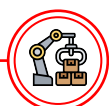
Small Data Center



Medium Data Center



Network & Server



Industrial controls & Process Automation



Medical Equipment



Building Automation



Elevator & Escalator

## GENERAL SPECIFICATIONS

Model	Win star														
Reference	Consult models and references depending on power and autonomies														
Power KVA	6	10	15	20	30	40	50	60	80	100	120	160	200	250	300

## GENERAL

Technology	On Line, double conversion with galvanic isolation														
Efficiency	ECO Mode >98%, Inverter > 92%, AC-AC > 91%														
Overload	125% - 12 min / 150% - 1 min														

## INPUT

Voltage range	304~456 Vac														
Frequency	50 Hz ±12%														

## OUTPUT

Power (KVA/KW)	6/5.4	10/9	15/13.5	20/18	30/27	40/36	50/45	60/54	80/72	100/90	120/108	160/144	200/180	250/225	300/270
Voltage	380,400,415±1% Vac														
Frequency	50Hz ±0.1% (battery mode)														
Type of wave	Pure sinewave														
Harmonic distortion	THD <2% (linear load) / <5% Non linear load														
Power factor	0.9 (PF 1 optional)														
Crest factor	3:1														

## BATTERIES & BACKUP TIME

Standard battery	Pb VRLA (lead battery with anti-leak seal), 384VDC (360~408VDC adjustable)														
Backup time	Up to many hours (depending on connected load)														

## 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	Connector RS232/RJ45														
Indicators	Automatic functions checking: voltage, input/output frequency, load status, battery capacity, temperature, historic events, system analysis,7 alarms type														
SNMP card (optional)	RJ45 SNMP Ethernet converter														

## PROTECTION

Protections	Current limitation, overload, short-circuit & overtemperature														
Maintenance bypass	Yes														
RFI filter	Yes														
Battery discharge protection	Yes														

## STANDARDS

Marks	CE														
Directives	EN 62040-1-1:2003 / EN 50091-2:1996														

## OTHERS

Operation temperature	0-40°C														
Relative humidity	0-95% (non condensing or ice)														
Altitude without decreasing power	1000 Over sea level														
Acoustic level	≤50dBA							≤65dBA							
Dimensions WxLxH (mm)	400x750x980				410x810x1080			500x980x1330		500x1060x1430		1117x848x1876		1600x1180x1960	
UPS Weight * (Kgs)	140	150	165	188	245	275	315	365	445	560	586	960	1080	1550	1750

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

Specifications may be changed without notice