

10 KVA - 500 KVA 3-Phase On-Line UPS





Product







MAINS FEATURES:

- HIGH PERFORMANCE
- FLEXIBILITY
- MAXIMUM RELIABILITY
- NO IMPACT TO THE MAINS
- SMART BATTERY MANAGEMENT

WITH THE INTEGRATED ISOLATION TRANSFORMER, HIGH OUTPUT POWER FACTOR 1.0 (KVA = KW) AND OPERATING EFFICIENCY OF UPTO 96% IN ONLINE MODE, THE MAGNA SERIES UPS IS SUITABLE FOR A WIDE RANGE OF APPLICATIONS SUCH AS IT & DATA CENTRES, INDUSTRY, HEALTHCARE, TELECOMMUNICATION SYSTEMS AND SECURITY. IT IS ALSO EQUIPPED WITH INPUT POWER FACTOR CORRECTION FUNCTION THAT ALLOWS TO AVOID DISTURBANCES OF THE MAINS SUPPLY..

The MAGNA series UPS is available in ratings from 10kVA to 500 kVA, three-phase input and three-phase output, On-line double conversion technology with front end IGBT based rectifer & inverter according to the VFI-SS-111 standard, as defined by the IEC/EN 62040-3. This range of UPS has been designed and built with cutting edge technologies and components:

DSP (Digital Signal Processor) controls with inbuilt isolation transformer using copper winding ensures strong capability with unbalanced loads; Generator compatible; large capability of history records storage, Intelligent self-diagnosing function, superior failure protection to guarantee maximum protection of the loads, significant energy savings and zero impact on the supply line. IGBT rectifier technology for high input power factor (> 0.99) and low THDi (<3%); Compact and small footprint; Unique ventilation design; Strong mixed load capacity and high overload capacity; High MTBF (>200,000 h); Low MTTR (< 0.5 h); Batteries connected directly to the bus, improving the impact resistance of UPS output; Front accessible maintenance and installation against wall allowed - Bottom and sides cable entry compatible.

Flexibility

Magna Series UPS can be used in several modes:

INTERNAL UPS CONFIGURATION

Normal operation: in On Line mode with the load supplied by the inverter through the double conversion of energy from the mains.

Ecomode: load supplied by the emergency mains (up to 99% efficiency) and in case of out of tolerance values, the power is automatically transferred to the inverter.

Smart Active: the UPS automatically determines whether to operate in On-Line mode or Eco-mode accordingly to the statistical data collected of the mains.

Frequency converter: It's possible to select the operational mode of UPS as a frequency converter from 50Hz to 60Hz or viceversa. In this condition, the static bypass is disabled. This mode can be operational both with or without internal batteries.

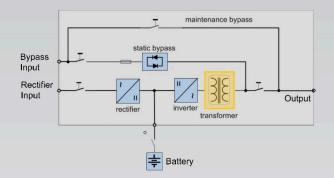
Additional features: UPS is equipped with special devices related to the ventilation in order to increase control and efficiency (Smart Ventilation).

Cold Start: The UPS can be switched-on in case of mains absence too.

Power Share: allows the selection of critical load depending of the backup time (available up to 125 kVA).

Double Input: available double input feature in case of two mains sup-ply line. (This is standard feature).

The multilingual LCD display provides direct access to the main UPS functions:





- 1. SYSTEM ON
- 2. SYSTEM STAND-BY
- 3. TEMPERATURE
- 4. COMMANDS
- 5. HISTORY LOG
- 6. WAVEFORM
- 7. DIAGNOSTICS
- 8. CONFIGURATION

The Magna Series UPS is designed to have a nearly zero impact on the power source, both mains or generator. This is made possible by the following elements:

- Input rectifer with PFC
- DSP
- Use of IGBT power components
- Possibility to set START DELAY from 1 to 120 secs programmable
- Possibility to set a SOFT START of input rectifer from 1-125 secs programmable

The Magna UPS also acts also as a fiter since it eliminates harmonic components and reactive power.





Maximum reliability and performances

The Magna Series UPS is a Transformer based UPS with inverter structure designed on three levels with high switching frequency IGBT modules.

This ensures:

- High performances
- High effciency (up to 96%)
- · Lower noise level
- Lower input Harmonics (<3%) High Output power factor



Smart battery management



Magna UPS is equipped with an intelligent battery monitoring that optimizes its performances, and monitors the status and lengthens the operating lifetime.

The battery management provides:

- Control of the temperature (optional) and voltage recharging balance in order to avoid excessive recharge and battery overheating
- Scheduled battery test
- · Protection againt slow-discharge
- Low ripple current
- Possibility to operate with different types of batteries, such as ermetic lead acid (VRLA), opened valve AGM and NiCd.





Communication

SUPPORTED OPERATING SYSTEMS

Windows 8/10/11 and later; Windows Server; Linux; Novell Netware; Mac OS X; IBM OS/2 Warp and Server; HP OPEN VMS; the most widely used UNIX operating system: IBM AIX, HP UNIX, SUN Solaris INTEL and SPARC, SCO Unix and UnixWare, Silicon Graphic IRIX, Compaq Tru64 UNIX and DEC UNIX, BSD UNIX and FreeBSD UNIX, NCR UNIX



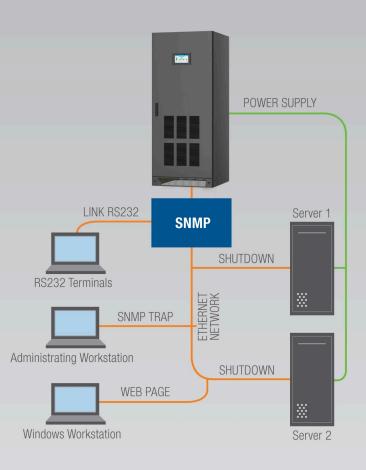
UPSMON offers easy UPS management. The software displays real-time information in the charts and values for critical data such as mains voltage, UPS load and battery charge. It allows remote interrogation of logs and operating parameters to help diagnose alarms and potential fault conditions. The software allows you to perform an automatic shutdown of connected equipment, in order to ensure its safety.

Advanced communication



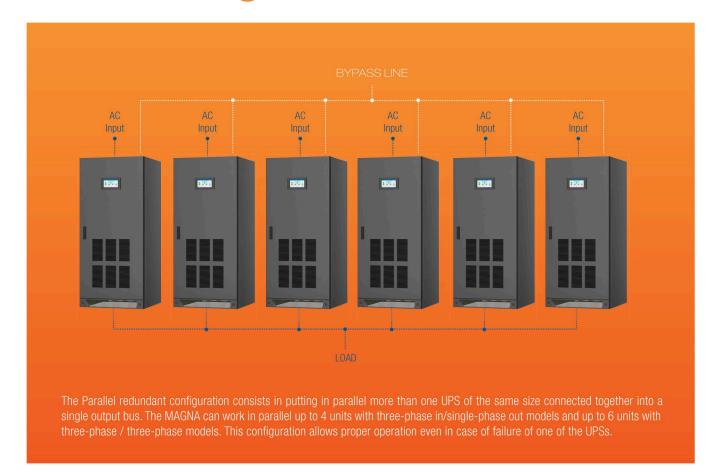
- The alphanumeric display provides very detailed information of measures, states and alarms with 8 different languages.
- Communication is cross-platform and supports all operating systems and network including monitoring software, UPSMON shut down with SNMP agent too.
- There are 3 slots for the installation of optional communication accessories such as network adapters, free contacts, ... etc.
- There are hardware devices like:
 - REPO (Remote Emergency Power Off) for emergency switch off of the UPS through emergency button.
 - Connection of the auxiliary contact of an external manual bypass available
 - Input for synchronization from an external power source.
 - Remote LCD.

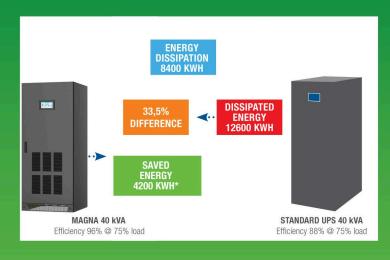
Direct connection with ethernet



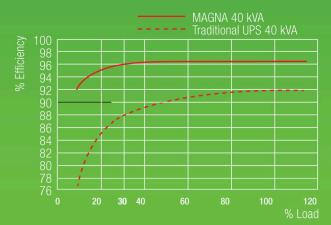
Parallel configuration







*in the case of standard of 0.15 € / kWh contract, the saving is € 630,00 per year



Green Technology

MAGNA is designed with technologies that ensure high efficiency up to 96.5%.

This allows in a year, saving over 50% energy usage, compared to other similar products on the market.

the market.

The MAGNA dimensions permit to make it suitable for application in small spaces maintaining excellent performances.





Technical specifications



MAGNA - MXT SERIES (WITH INTEGRATED ISOLATION TRANSFORMER)

MODEL	MX010T	MX015T	MX020T	MX030T	MX040T	MX060T	MX080T	MX100T	MX120T
Capacity	10 kVA/ 10 kW	15 kVA/ 15 kW	20 kVA/ 20 kW	30 kVA/ 30 kW	40 kVA/ 40 kW	60 kVA/ 60 kW	80 kVA/ 80 kW	100 kVA/ 100 kW	120 kVA/ 120 kW
INPUT									
Rated voltage				380	V/400 V/41	5 Vac			
Voltage range				30	05 V - 480 V	AC			
Rated frequency					50/60 Hz				
Frequency range				5	0/60 Hz ±5	Hz			
Power factor					≥0.99				
Total harmonic distortion (THDi)					≤3%				
Bypass voltage range				±	20% (settab	le)			
Delayed start of rectifier				1 - 300 s (se	ettable via d	isplay panel)			
ECO voltage range				±	10% (settab	le)			
OUTPUT					`	,			
Voltage				380	V/400 V/41	5 Vac			
Voltage regulation					± 1%				
Frequency		Synchi	onized with	utility in mai	ins mode; 50) / 60 Hz ± 0.	1% in batter	ry mode	
Waveform		,		,	Sinusoidal			,	
Power factor					1.0				
Crest factor					3:1				
Total harmonic distortion				10.71	D 00 /	inci ne	n.		
(THDV)			≤	1% (linear lo	oad); ≤3% (no	on-linear load	d)		
Transfer time			J	Inverter mod	e to ECO mo	s mode: 0 ms ode: 5 - 10 m	S		
overload	110)% - 125% fc				5% - 110% fo 1% - 200% for		200% for 100) ms
Slight adjustment of inverter					± 5 V				
output voltage					± 3 V				
BATTERIES									
DC Voltage			12V x confi			ettable via di	splay panel)	
Number of battery					40 pcs (sett				
Charging current					default / se				
Charging						oating / equa		je	
Battery state display						ery remainin			
Battery self-test		Setta	able periodic	self-test; m	anually conf	igurable test	time and vo	oltage	
SYSTEM									
Efficiency			,	AC-AC mode	: 96%; ECO ı	mode: ≥98.5°	%		
Max. Parallel numbers					6				
Protections	Short	-circuit - ove	erload - over	voltage – un	der-voltage	- low battery	over-temp	perature - fa	n fault
Communications			RS232 / RS	S485 / dry co	ontacts (star	ndard), SNM	P (optional)		
IP rating					IP20				
EMI					EN62040-2				
EMS		IEC61000	-4-2 (ESD) IE	C61000-4-3	(RS) IEC610	000-4-4 (EFT) IEC61000-	4-5 (surge)	
OTHERS									
Temperature & Humidity	0-50	°C with dera		er deg C and	0-40°C with	out derating	0-95% RH	(non-conder	ısing)
Noise level			55 dB			60 dB		65 dB	
Dimensions (W x D x H) (mm)		40	00 x 800 x 11	100		600 x 700 x 1500	70	0 x 800 x 17	00
Packaged dimensions (W x D x H) (mm)		49	90 x 920 x 12	250		700 x 600 x 1650	80	0 x 900 x 18	50
Net / Gross weight (kg)	158/200	165/207	175/217	210/252	260/302	460/480	590/620	630/660	690/720

Note: UPS specification and data are subject to change without notice







Technical specifications

MAGNA - MXX SERIES (WITH INTEGRATED ISOLATION TRANSFORMER)

Capacity
Input wiring
Rated voltage 380 V/400 V/415 Vac Voltage range 305 V - 480 V AC Rated frequency 50 / 60 Hz Frequency range 50 / 60 Hz + 5 Hz S0 / 60 Hz Frequency range 50 / 60 Hz ± 5 Hz S0 / 60 Hz
Rated voltage 380 V/400 V/415 Vac
Voltage range 305 V - 480 V AC Rated frequency 50 / 60 Hz + 5 Hz Frequency (range) 50 / 60 Hz + 5 Hz Power factor ≥0.99 Total harmonic distortion (THDI) ≤3% Input current-limiting 1.1 times of rated current (0.1 - 1.1 settable) Rectifier delay start 10 s (1 - 300 settable) Bypass voltage range ± 20% (settable) OUTPUT 0UTPUT Output wiring Three-phase five-wire (30 + N + PE) Rated voltage 380 V / 400 V/ 415 VAC Voltage regulation accuracy ½ ± ½ Voltage regulation accuracy 0 V (± 1 - ± 5 V settable) Frequency Synchronized with utility in mains mode; 50 / 60 Hz ± 0.1% in battery mode Power factor 1.0 Total harmonic distortion (THDV) ≤1% (linear load); ≤3% (non-linear load) Crest factor 3:1 Overload capability 110% for 60 min, 125% for 10 min; 150% for 1 min; 150% - 200% for 200 ms, > 200% for 100 ms BATTERIES 2 DC voltage 480 Vdc (support 384 Vdc / 432 Vdc) Number of batteries 40 pcs 12V (support 32 / 36 / 40 pcs) <t< td=""></t<>
Rated frequency S0 / 60 Hz
Frequency range Power factor Total harmonic distortion (THDi) Rectifier delay start Bypass voltage range Output Output Output wiring Rated voltage Voltage regulation Frequency Synchronized with utility in mains mode; 50 / 60 Hz ± 0.1% in battery mode Total harmonic distortion (THDV) Crest factor Overload capability Diverload capability Diverload capability Diverload Efficiency Efficiency Efficiency Max. number of parallel connections Protections Short-circuit, overload, over temperature, overvoltage, under voltage, battery low woltage and fan failu Standard configuration: SNMP card, temperature compensation, SMS alarms
Power factor Total harmonic distortion (THDi) Rectifier delay start Bypass voltage range OUTPUT Output wiring Three-phase five-wire (30 + N + PE) Rated voltage Voltage regulation accuracy Voltage regulation Frequency Synchronized with utility in mains mode; 50 / 60 Hz ± 0.1% in battery mode Power factor Total harmonic distortion (THDV) Crest factor Overload capability BATTERES DC voltage Line mode ≥96.0%, ECO mode ≥98.5% Protections Power taguard voltage, battery low voltage, battery low voltage and fan failu Standard configuration: SNMP card, temperature compensation, SMS alarms
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Optional configuration: SNMP card, temperature compensation, SMS alarms
Display 5.7 inches LCD touch screen
OTHERS
Operating temperature 0-50°C with derating @1% per deg C and 0-40°C without derating
Storage temperature - 25°C - 55°C (without battery)
Humidity 0% - 95% (non-condensing)
Altitude 4 1000 m. Above 1000 m, derating 1% for each additional 100 m
IP rating IP 20
Noise level at 1 m <65dB <70 dB
Dimensions (WxDxH) (mm) 800 x 800 x 1800 800 x 860 x 1700 1210 x 860 x 1950 2380 x 860 x 1950
Packaged dimensions (WxDxH) 900 x 900 x 2050 900 x 1000 x 1300 x 1000 x 2200 (x2)
Net / Gross weight (kg) 580/630 630 / 680 680/730 790/810 1135/ 1275/ 1355/ 2090/ 2300, 2410

Note: UPS specification and data are subject to change without notice









DS SYSTEMS PVT. LTD.

GUWAHATI

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KOLKATA

CD-221, Sector-1, Salt Lake City, Near Salt Point School, Kolkata - 700 064, West Bengal

BHUBANESWAR

Ground Floor, Plot No. 1149/2415, Gobinda Prasad, Bomikhal, (Behind Ekamra Cinema) Bhubaneswar-751010 Odisha

AHMEDABAD

Block no. 50/592, Chitrkut Apartment, Sola Road, Naranpura Ahmedabad - 380 013, Gujarat.











