

# A3 Series UPS 15-20 kVA | Single phase

- Three Level Inverter
- Digital Power Factor Correction

## ✓ NEW TECHNOLOGY

- Three level inverter
- High and stable online efficiency (up to 94%)
- High input PF ( $\geq 0.99$ )
- Low input current THD (<5%)
- Low output voltage THD (<2%)
- Short response time (<2ms)
- High input and output performance

## ✓ RELIABLE & USER FRIENDLY

- Parallel option up to 6 units
- Intelligent redundancy management (n, n+1 and n+x)
- Programmable high overload capacity
- Short circuit protection
- Low investment and operation cost
- Short return on investment time
- Highest efficiency eco-mode (up to 98%)
- Reduced weight/volume/footprint
- Wide input voltage tolerances (-25%, +20%)
- Cold start
- Energy-saving sleep mode
- Short circuit, lightning and surge protection
- Remote emergency power off (EPO)
- Generator compatibility
- 1-7A adjustable battery charger
- Extended battery life with intelligent battery management
- Automatic and manual battery test
- LCD interface and LED operation mode diagram
- Remote monitoring panel (optional)
- 512 real time event log
- Battery capacity, load percentage and ambient temperature display
- SNMP (optional), RS232, RS485, Modem, MODBUS communication
- Remote monitoring and management software
- Dry contacts and custom inputs
- Smart fan control
- Internal battery
- Manual bypass
- Easy installation and maintenance
- 10 years spare part warranty
- 7/24 technical support and customer service

## ✓ STANDARDS

- EN 62040-1 (Safety)
- EN 62040-2 (EMC)
- CE, ISO 9001:2008, ISO 14001, GOST



ELECTRO-MEDICAL DEVICES



LOCAL AREA NETWORKS



TELECOM APPLICATIONS



INDUSTRIAL PROCESSES



E-BUSINESS (SERVERS FARMS, ISP/ASP/POP)



SMALL COMPUTERS NETWORK



PERSONAL COMPUTERS



CASH REGISTERS



SERVERS



THREE LEVEL TECHNOLOGY



%94 Efficiency



## A3 SERIES UPS TECHNICAL SPECIFICATIONS

A3 SERIES UPS TECHNICAL SPECIFICATIONS		15	20
INPUT	Power (kVA)	15	20
	Voltage	220 / 230 / 240 Vac 1ph + N	
	Voltage Tolerances	- 25%, +20% (without downgrading)	
	Frequency	50 / 60 Hz	
	Frequency Tolerances	± 10%	
	Power Factor	≥ 0.99	
	THD <sub>i</sub>	< 8%	
OUTPUT	Voltage	220 / 230 / 240 Vac 1ph + N	
	Voltage Tolerances	± 1% (static load), dynamic load in accordance with VFI-SS-11	
	Frequency	50 / 60 Hz	
	Frequency Tolerances	± 0.1% (self-synchronize), ± 1% (mains-synchronize)	
	Power Factor	0.7 (0.8 optional)	
	THD <sub>v</sub>	≤ 2% (linear load), ≤ 5% (non-linear load)	
	Crest Factor	3:1	
OVERLOAD CAPACITY	≤ 110%	30 min.	
	≤ 130%	10 min.	
	≤ 150%	1 min.	
	≤ 160%	10 sec.	
EFFICIENCY	Online	up to 94%	
	Eco-mod	up to 98%	
GENERAL	Technology	Three level inverter, PFC	
	Control	Dual-DSP, SPWM	
	Paralleling Units	Up to 6 units	
	Communication	SNMP(Optional), RS232, RS485, MODEM, MODBUS	
	Remote Monitoring	SNMPView, Remote monitoring panel(optional)	
	Dry Contacts	Programmable 3 dry contacts	
	Custom Inputs	Generator, Remote EPO, Remote Start/Stop	
	Cold Start	Standard	
Maintenance Bypass	Standard		
ENVIRONMENT	Operating Temperature	from 0 °C up to +40 °C (from 20 °C to 25 °C for maximum battery life)	
	Relative Humidity	0% - 85% (without condensation)	
	Maximum Altitude	≤ 2000 m	
	Noise Level	< 55 dB (A)	
UPS CABINET	Dimensions (W x D x H) (mm)	255 x 730 x 870	
	Weight (kg)	49	51
	Degree of Protection	IP20	
	Colour	RAL7012	
BATTERY	Internal Battery Quantity	30	
	Internal Battery Capacity (Ah)	7-9	
	External Battery Cabinet Socket	Standard	
STANDARDS	Safety	EN 62040-1	
	EMC	EN 62040-2	
UPS LIFETIME		10 YEARS	