

D1 Series UPS 160-600 kVA | Three phase

- IGBT Rectifier
- Digital Signal Processing (DSP) Technology

✓ TECHNOLOGY

- IGBT rectifier
- High efficiency (up to 92%)
- High input PF (≥ 0.99)
- Low input current THD ($< 4\%$)
- Low output voltage THD ($< 2\%$)
- Short response time ($< 2\text{ms}$)
- High input and output performance

✓ RELIABLE

- Parallel option up to 6 units
- Intelligent redundancy management (n, n+1 and n+x)
- Variable input low voltage depending on loading percentage (up to -36%)
- Programmable high overload capacity
- Short circuit protection
- Local and remote emergency power off
- Dual input (Optional)
- Optimum generator compatibility

✓ USER-FRIENDLY

- Reduced weight/volume/footprint
- Higher efficiency with eco-mode (up to 98%)
- Self-loading (regenerative mode)
- Adjustable input / output voltage & selectable frequency
- Extended battery life with intelligent battery management
- Automatic and manual battery test with adjustable period and duration
- Touch screen TFT LCD user interface (optional for 400-500-600 kVA)
 - RS232/RS485 (standard)
 - USB Port (standard)
 - SNMP (standard)
 - Advance monitoring options (standard)
 - 1024 real time event log and easy download
- Multi language options up to 10 languages
- 512 real time event log and easy download
- Multi communication options
- Remote monitoring and management software
- Programmable dry contacts
- Custom inputs
- Maintenance 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



DATA CENTERS



INDUSTRIAL PLACES



ELECTRO-MEDICAL DEVICES



EMERGENCY DEVICES (ALARMS)



TELECOM APPLICATIONS



LOCAL AREA NETWORKS



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



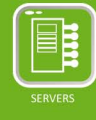
INDUSTRIAL PROCESSES



PERSONAL COMPUTERS



SMALL COMPUTERS NETWORK



SERVERS



CASH REGISTERS



D1 SERIES UPS TECHNICAL SPECIFICATIONS

	Power (kVA)	160	200	250	300	400	500	600
INPUT	Voltage	380 / 400 / 415 Vac 3ph + N						
	Voltage Tolerances	± 15% (without downgrading), -36% (depening on load percentage)						
	Frequency	50 / 60 Hz						
	Frequency Tolerances	± 10%						
	Power Factor	≥ 0,99						
	THD _i	< 4%						
BYPASS	Dual Input	Optional						
	Voltage	380 / 400 / 415 Vac 3ph + N						
	Voltage Tolerances	± 10% (adjustable)						
	Frequency	50 / 60 Hz						
	Frequency Tolerances	± 4% (adjustable up to ± 10%)						
	Maintenance Bypass	Standard						
OUTPUT	Voltage	380 / 400 / 415 Vac 3ph + N						
	Voltage Tolerances	± 1% (static load), dynamic load in accordance with VFI-SS-11						
	Frequency	50 / 60 Hz (selectable)						
	Frequency Tolerances	± 0.1% (self-synchronize), ± 1% (mains-synchronize, adjustable up to ± 5%)						
	Power Factor	0.8						
	THD _u	≤ 2% (linear load), ≤ %5 (non-linear load)						
	Crest Factor	3:1						
OVERLOAD CAPACITY	≤ 110%	up to 60 min.						
	≤ 130%	up to 10 min.						
	≤ 150%	up to 1 min.						
EFFICIENCY	Online	up to 92%						
	Eco-mode	up to 98%						
GENERAL	Technology	True online-double conversion, IGBT rectifier						
	Control	DSP, SPWM						
	Paralleling Units	up to 6						
	Communication	SNMP, USB, RS232, RS485, MODBUS						
	Remote Monitoring	Remote panel (Optional)						
	Dry Contacts	Programmable 7 dry contacts						
	Custom Inputs	Generator, Battery temperature sensor, Remote EPO, Remote Start/Stop						
	Touch Screen TFT LCD User Interface	-					Optional	
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	< 65 dB (A)					< 70 dB (A)	
UPS CABINET	Dimensions (W x D x H) (mm)	630x1110x1450	705x1260x1600	780x1260x1850		2200 x 810 x 2030		
	Weight (kg)	525	590	850	870	1380	1600	1800
	Degree of Protection	IP20						
	Colour	RAL7012						
BATTERY	Battery Quantity	60 / 64						
STANDARDS	Safety	EN 62040-1						
	EMC	EN 62040-2						
UPS LIFETIME		10 YEARS						