UNINTERRUPTIBLE POWER SUPPLY



HS

TECHNOLOGY:	TRUE ON LINE Double Conversion
CLASSIFICATION:	VFI-SS-111 (EN 62040-3)
POWER RANGE:	50 ÷ 500 kVA
No. OF PHASES:	3:3



APPLICATIONS

- Large computer networks
- Data processing centres
- Clusters

- Industrial equipment
 Tala information are
 - Tele-information systems
 - Automation and control systems

SPECIFICATION

Up to four unit parallel work for capacity or redundancy

True On-Line Double Conversion Technology provides perfect output voltage parameters, regardless of the input voltage and the load.

Modular topology with HOTSWAP modules - possibility to extend UPS up to 200kVA in one case without any interruption to the load. Hot swap modules 50kVA/50kW provides very low MTTR which brings to the customer huge reliable of whole system.

Rectifier and Inverter SPWM IGBT - lower cost - simple hardware circuit - high IGBT utilization - excellent THDi and Input Power Factor performance.

Automatic Bypass (Static Switch) provides continuous load supply in critical conditions, such as overheating or inverter failure.

Maintenance Bypass (uninterruptible) enables service handling without necessity of shutting off the load.

Separate supplying of Bypass line provides reserve power source for load even when the UPS is damaged or main line protection is affected.

Power distribution system compatibility – UPS works in different. distribution system like: TN, TN-S, TN-C, TN-C-S, TT

Communication:

Modbus,RS-232, USB for UPS and load supervision and control, Dry Contact alarm indicators; work with BMS systems, SNMP integration with systems management network NMS,

High efficiency (>96%) reduces heat dissipation and limits power consumption costs.

LCD Control Panel displays UPS and power parameters as well as hundreds of useful information.

Small dimensions - requires small area for unit operation.

Modular design – fast maintenance and short MTTR.

ECO-Mode gives possibility of significant cost reduction and in practice stops heat emission.

High input power factor 0,99 reduces the value of current drawn from the mains.

Highest output power factor 1.0 allows load of versatile characteristics to be powered.

Wide input voltage range for normal mode ensures that the batteries are used only if necessary - in fact, only when the input voltage is completely lost.

Wide input frequency range for normal mode gives possibility for seamless operation with different power sources - as mains or the generating set.

Simple maintenance - microprocessor control and 24h/7 operation mode means that the unit doesn't require specialized handling.

Advanced Battery Management gives reliability of optimal charging and using batteries, elongates its lifetime and reduces operating costs.

Excellent voltage quality is provided by IGBT inverter and high-frequency PWM technology; the output voltage has always stable parameters, independent of input disturbances and the load characteristics.

High overload capacity indicates power reliability during transient conditions and high resistance on handling faults.

User configurable settings - enable user to set nominal voltages, frequency, preferred operating modes..

Remote Emergency Power Off port (REPO) provides remote shutting off the load and UPS in case of emergency.

Configurable batteries quantity and charging current – allows user to set required autonomy time.

Redundancy configurations:

- Parallel for capacity or redundancy,
- Hot Standby

UNINTERRUPTIBLE POWER SUPPLY

HS

Power Number of phases in:out Input Voltage Voltage range Frequency Frequency range	50 kVA	100 kVA	150 kVA	200 kVA	250 kVA	300 kVA	450 kVA	500 kV				
Input Voltage Voltage range Frequency												
Voltage Voltage range Frequency				3	:3							
Voltage range Frequency												
Frequency		380 400 / 415 VAC										
Frequency	-43% ÷ 25%											
	50/60 Hz											
	-20% ÷ 20%											
THDi	-20% - 20% <3%											
Input power factor	≥ 0.99											
Output	= 0,55											
Voltage	380 / 400 / 415 VAC											
Power factor	360 / 400 / 415 VAC											
Voltage regulation	1.0											
static/dynamic	±1% / ±2%											
Frequency	50/60 ± 0.05 Hz											
Inverter overloads	110% - 10 min, 125% - 1 min., 150% - 5 sec., >150% - 200 ms											
Bypass overloads	125% - constant work, 130% - 10 min., 150% - 1 min., > 150% - 300 ms.											
Short circuit capability	340% of nominal current by 200ms											
Efficiency	>96%											
Eco mode efficiency	99%											
Crest factor	99% 5:1											
Batteries				5	. 1							
	ı		Mate		I I \ / D I \ A	0.014						
Туре	Maintenance free, sealed VRLA AGM											
Cold start	Yes											
Configurable batteries	36-44 psc. 12V											
Charging	3 ÷ 8 hours up to 90% of capacity											
Weight and dimensions												
Dimensions of UPS (WxDxH)	600 x 980 x	x 1150 mm	650 x 960	x 1600 mm	650 x 960	x 2000 mm	1300 x 1100	x 2000 m				
Weight of UPS	165 kg	210 kg	305 kg	350 kg	445 kg	490 kg	855 kg	900 kg				
Communications												
Operation mode indicators	Touchable 7 " LCD display, LED indicators , sound alarm, LCD in each power module Touchable 10 " LCD display, LED indicators , so alarm, LCD in each power module											
Communication	RS232, RS485, MODBUS RTU/ASCII, USB, Dry Contact, SNMP , REPO, parallel slots											
Environmental												
Noise level depending the load and temp.	< 62 dB (A)											
Operating temperature for UPS	0 °C ÷ 40 °C											
Recommended operating temperature for UPS and batteries	15 °C ÷ 25 °C											
Storage temperature	- 15 °C ÷ 55 °C											
Humidity	5 ÷ 95 % (non condensing)											
Certifications						,						
Standards	EN 62040-2:2005, EN 62040-2:2006, EN 60950-1, CE											
Options			020 10 2.1									
- SNMP card - Uninterruptible External Mair - Modbus card and Dry Conta		ass	- Software	status panel e cabinets or rac	sk.	-						

CEICSA-1152-001
Official Distributor: