

TECHNICAL DATA SHEET

MODSECUR MRTM

TECHNOLOGY TRUE ON LINE Double Conversion

POWER RANGE 10 kVA

NUMBER OF PHASES 3:3

APPLICATIONS



Servers



Workstations



Building infrastructure equipment



Laboratory equipment



Tele-information systems



Automation and control systems



SPECIFICATION

True On-line Double Conversion Technology (VFI-IEC62040) provides perfect output voltage parameters, regardless of input voltage and the load.

The modular design increases reliability, reduces servicing time and enables the expansion of system power by adding power modules to provide power for increased receiver power.

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

Maintenance bypass uninterrupted operation of device without turning off the power supply. Separated bypass line gives possibility to provide reserve power supply for load even in case of UPS failure or UPS main circuit breakdown.

Communication:

USB to monitor and to manage work of UPS and load.

SNMP adapter for remote control of UPS and load.

LCD control panel displays UPS and power parameters as well as hundreds of useful information in multi-language.

Small dimensions requires small area for unit operation.

Automatic diagnostics guarantees full device performance, control of components and operating parameters without user intervention.

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

The highest output power factor PF=1.0 allows load of versatile characteristics to be connected.

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

Easy operation microprocessor control and fully automatic mode ensure maintenance-free work.

Automatic startup ensures maintenance free operation even after the unit was switched off after long time mains failure.

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.

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MODSECUR MRTM

Model	MRTM
Power	10 kVA/10kW
No. of phases in:out	3:3
Input	
Voltage	380 / 400 / 415 Vac
Voltage range	190 – 520 Vac
Frequency	50 / 60 Hz ± 20%
THDi	<3%
Input power factor	≥0,99
Output	
Power factor	1,0
Voltage	380 / 400 / 415 Vac
Voltage regulation static/dynamic	±1% / ±3%
Frequency	50 / 60Hz ± 0,1 Hz
Overload	<110% - 30 min., 130% - 5 min., 150% - 10 sec, >150% -200 ms.
Efficiency in On-Line mode/Eco mode	95% / 98 %
Crest factor	3:1
Batteries	
Type	Maintenance-free, AGM type VRLA
Battery range number	32-40 psc
Charging current	4 A
Charging time	3 – 4 hours up to 90% of capacity (configurable)
Weight and dimensions	
Dimensions of UPS [mm] (W x D x H)	418 x 635 x 132 (3U)
Weight of UPS without batteries	22 kg
Communications	
Working indicator	LCD screen + LED, sound alarm
Communication	SNMP slot, USB, EPO , RS232
Parallel	Possibly to work in parallel up to 10 units
Environmental	
Noise level (depends how many modules)	<55 dB
Operating temperature for UPS	0°C ÷ 40°C
Recommended operating temperature	15°C ÷ 25°C
Storage temperature	-20°C ÷ 40°C
Humidity	0 ÷ 95% (without condensing)
Certification	
EMC	EN62040-2
Standards	CE, EN62040-1, EN 61000-4-1, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-2-2
Options	
- SNMP card - Uninterruptible External Maintenance Bypass	- External batteries in battery packs - Environmental sensor (EMD)



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