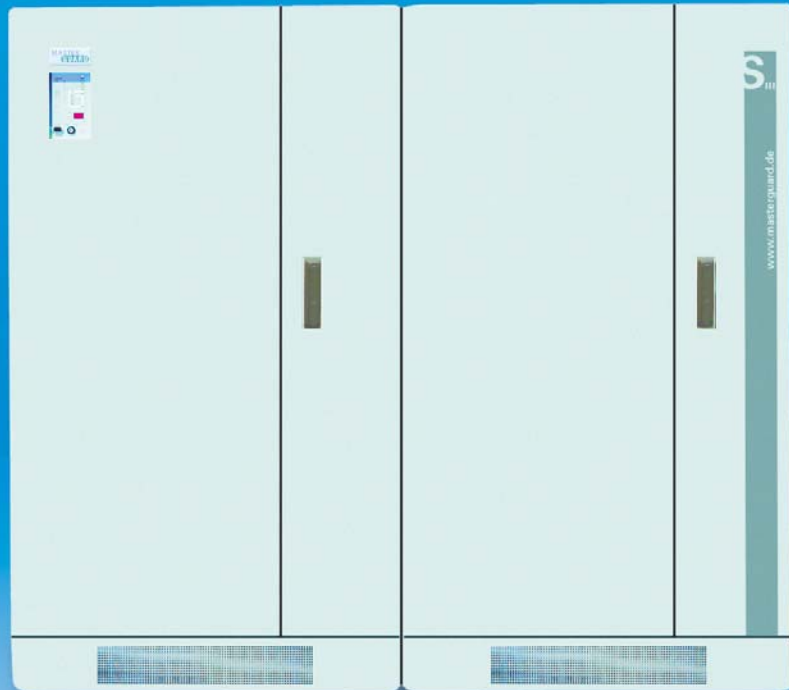


**MASTERGUARD
UPS****Series S_{III}****250 – 800 kVA****Series
S_{III}****Wide-range of applica-
tions through proven
technique**

Qualitative high-graded technique as well as most modern control-concepts makes the MASTERGUARD Series S_{III} a reliable UPS with universal use. Therefore the field of application has a wide range: IT, Internet, Telecommunication, Air-traffic control, Transportation, Logistics, Industry and Medicine.

As a real On-line UPS with permanent double-conversion the S_{III} offers power protection against excess voltage, frequency fluctuations, voltage transients and mains failure, even by extreme network conditions.

**Vector-control for optimal operating
conditions**

The Vector control provides a digital adjustment in real-time. Most modern electronics - like the IGBT inverter with high switching frequency and digital signal-processing - generates the requirements for an optimal compensation for the load voltage and frequency. Therefore problems with non-linear load, unbalanced load, Crest-factor and harmonic distortions at the output are not applicable.

**Power-reserves also in extreme
situations**

To guarantee secure power always, even under extreme conditions, important operating parameters of the Series S_{III} are especially wide. The wide input voltage range reduces the stress of the battery and therefore increases the battery life. Under nominal conditions a 10 % reserve for the output power is available; and also high margins for overload and short-circuit capabilities.

MASTERGUARD Series S_{III}	S53250	S53300	S53400	S53500	S53600	S53800
Nominal power	250 kVA	300 kVA	400 kVA	500 kVA	600 kVA	800 kVA
Operating principle	On-line double conversion technique					
Input	3-phase					
Voltage	400 V ± 15% (380 V, 415 V selectable)					
Reserve Voltage	400 V ± 10% (380 V, 415 V selectable)					
Frequency	50/60 Hz ± 5%					
Battery						
Cell number for lead acid batteries	240					
Cell number for NiCd-batteries	375					
Output	3-phase					
Voltage	400 V (380 V, 415 V selectable)					
Frequency	50 / 60 Hz selectable					
Frequency stability (network sync)	± 0,75%, 1,5 %, 2,5 %, 6 % (selectable)					
Frequency stability (own oscillator)	0,05 %	0,05 %	0,05 %	0,05 %	0,05 %	0,05 %
Power upgradability at 25°C	110 % of the nominal power					
Nominal output power	200 kW	240 kW	320 kW	400 kW	480 kW	640 kW
Overload capability	125 % for 10 minutes 150 % for 1 minute					
Harmonic distortions						
for linear load	< 3 %					
for non-linear load	< 5 %					
Crest-factor	3					
Security						
Degree of protection	IP 20					
Immunity to electrical interference and interference emission	EN 50 091-2					
Permissible ambient temperature						
for operation	0°C to +40°C (+15°C to +25°C recommended for batteries)					
for storage	-15°C to +40°C					
Noise level	72 dBA	72 dBA	74 dBA	74 dBA	75 dBA	78 dBA
Interfaces						
Combined interface	RS232 and contacts / Sub-D, 25-pole, female, aux. voltage 12 V DC, contact rating 24 V, 1 A					
Contact interface	Potential free contacts / Sub-D, 9-pole, female, aux. voltage 12 V DC, contact rating 24 V, 1 A, AS/400 parameterizable					
PC-interface	RS485 (serial) / Sub-D, 9-pole, female					
Service-interface	RS232 (serial) / Sub-D, 9-pole, female					
Dimensions						
Width x Height x Depth (mm)	2040x1780x835	2040x1780x835	2040x1780x835	2840x1780x835	3860x1780x1035	3860x1980x1035
Weight	2020 kg	2020 kg	2350 kg	3215 kg	3960 kg	4820 kg

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