

# MST33 Series

Microprocessor Control System  
Static Voltage Stabilizers



STATIC VOLTAGE  
STABILIZER  
10-500kVA  
Three Phase / Three Phase



- Wide Input Voltage Range
- Strong Output Voltage Stability
- Ultra Fast Voltage Regulation (500V/s)
- True 32-Bit Microcontroller Controlled
- Overload Protection up to 150%
- Fast Response to Voltage Surges
- High Efficiency
- 2x16 LCD Screen
- Advanced Alarm Menu
- Manual Bypass Feature
- Auto Restart When Mains Available
- 512 Events Log Memory (Opt.)
- Full Electronic Static Structure
- Resistance For Weather Conditions : Able to Operate a High Humidity and Temperature
- 2 Years Warranty
- 10 Years Spare Parts Support
- Experienced Technical Service Support

10kVA • 15kVA • 22,5kVA • 30kVA • 45kVA • 60kVA • 75kVA • 100kVA • 120kVA • 150kVA • 200kVA • 300kVA • 400kVA • 500kVA

**MAKELSAN®**  
Uninterruptible Power Supplies

MODEL																	
Capacity (kVA)		10	15	22,5	30	45	60	75	100	120	150	200	300	400	500		
INPUT																	
In. Vol. Correct. Interval		275~450VAC (Optional: 190V~485V)															
Operation Frequency		50~60Hz (±10%)															
Line Input Protection		Over Current Protection Insurance															
OUTPUT																	
Output Voltage		380VAC RMS ±3%							380VAC RMS ±5% (Optional:±3%)								
Overloading		10min.. 125% Load, 1min.. 150% Load, 10sec.. 200% Load, 20ms. 500% Load															
Correction Speed		500Volt/Sec															
Upturn Period		20 ms															
Output Protection		Short Circuit, Over - Load, Over - Temperature, Over and Low Voltage Protections															
WORKING PRINCIPLE		Microprocessor Controlled, Full Automatic, Static, Semi Conductor Electronic Structure Maintenance Free															
CONTROL PANEL																	
Display and Buttons		Load Level, Input - Output Voltage															
Alert Message		Input Low/ Hi, Output Low/ Hi, Over Temperature															
GENERAL																	
Efficiency		>97% (Full Load)															
Mechanical Bypass		"Manually Controlled Line-PAKO SWITCH Selects Voltage Regulator" Switch Turn On/Off															
Protection Level		IP20															
Standard		TS EN 61000-6-2: 2006 - TS EN 61000-6-3: 2007 (EMC), IEC60204-1+A1:2008(LVD)															
ENVIRONMENTAL																	
Working Temperature		-10°C~50°C															
Storage Temperature		-25°C~60°C															
Relative Humidity		<%90, DIN (40040)															
Working Altitude		<2000m															
Acoustic Level		<50dB				<55dB				<58dB				<60dB		<63dB	
OTHERS																	
Dimension (mm)	Width	400				500				555				1400			
	Depth	600				650				825				850			
	Height	1133				1333				1559				1650			
Weight (kg)		80	95	112	120	175	203	233	277	320	369	636	775	857	930		