

Topaz 700 10kVA to 300kVA

*Intelligent protection for
transmitters & industrial controls*



Advanced Features

- ▶ Fast microprocessor controlled voltage regulation
- ▶ Tight output voltage regulation
- ▶ Zero-current switching
- ▶ Wide input regulation range
- ▶ Triple shield computer grade transformer
- ▶ 97% efficiency
- ▶ High inrush capability
- ▶ Transient protection and high frequency filter
- ▶ Over/under voltage protection (optional)
- ▶ Includes input circuit breaker
- ▶ Manual bypass switch (optional)

Three Phase Conditioners

The Topaz 700 power conditioning system from **MGE UPS SYSTEMS** provides exceptional system reliability that can be attributed to MGE's microprocessor-controlled zero-current crossing tap switching technology.

The **Topaz 700** combines solid state, microprocessor based voltage regulation, with a multi-shield computer grade transformer and filter to remove transients and noise. The combined effect is a regulating and shielded isolation transformer/system that solves 99% of the electrical disturbance problems.

The **Topaz 700** protects your system against electrical brownouts, sags, surges, transients and other electrical disturbances. This power conditioner also provides the protection, efficiency, and reliability that are critical to every application with sensitive equipment.

THE UNINTERRUPTIBLE POWER PROVIDER

M G E
UPS SYSTEMS

Surge suppression

Meets ANSI/IEEE Standard C62.41-1991 (IEEE 537, category B3)

Indicator lights

Three green indicators show the presence of regulated voltage on each phase. A fourth red light indicates an overtemperature condition

Over voltage protection

Automatic electronic shut down occurs if the output voltage exceeds $\pm 10\%$ for 6 seconds (adjustable)

Characteristics		Topaz 700	
Technology		Tap Changer	
Input voltage range		+10% to -20%	
Output voltage range		$\pm 3\%$ Typical	
Input frequency range		47-53 Hz for 50 Hz models 57-63 Hz for 60 Hz models	
Efficiency		97% Typical, 95% minimum	
Load power factor		0.6 leading to 0.6 lagging	
Common-mode noise attenuation		140 dB	
Normal-mode noise attenuation		-3 dB @ 1000 HZ, -40dB per decade	
Total harmonic distortion		Less than 1% added	
Correction time		1 Cycle typical, 1.5 cycle maximum	
Overload rating:		200% for 10 seconds 1000% for 1 cycle	
Environment			
Audible noise		Less than 50dBa @1 meter (depending on size)	
Operating temperature		0°C to +40°C	
Altitude		Up to 10,000 ft	
Standards			
Safety agencies		UL 1012, CSA, FCC Cat. A	
Warranty			
Standard warranty		One year	

Options:

- RRM2020 - Regulation Range Monitor has above, below and normal LED indicator lights which indicate when the input is beyond the regulation range, or within the range.
- RBS202x - Integral Manual Rotary Maintenance Bypass Switch
Specific models numbers include:
RBS2020 - 10 to 15 kVA units
RBS2021 - 25 to 30 kVA units
RBS2022 - 45 to 125 kVA units
RBS2023 - 150 kVA units
RBS2024 - 225 to 300 kVA units
- REP2020 - Remote Emergency Power Off Option (REPO) - A remotely mounted pushbutton is provided with 50 feet of cable. The Shunt Trip option, STC2020, is required with this option.
- STC2020 - Shunt Trip for Main Circuit Breaker Option.
- UOV2020 - Under/Over Voltage Shutdown Option - if the output exceeds preset values, the unit output will shut off electronically & illuminate a diagnostic light.
- PSO2020 - Under/Over Voltage Shutdown with Loss of Power Shut Off-instead of disabling the output, this option will shunt trip the main circuit breaker if the output voltage exceeds preset values. The Shunt Trip option, STC2020, is required with this option.
- ERR1040 - Extended Regulation Range Option - provides +10% to -40% input regulation range for intermittent duty only. Output regulation is +5% to -6% from nominal with this option.

Topaz 700 Power Conditioners (Three Phase)

Model #	kVA	Input volt	Output volt	Output distribution	Cabinet size (HxWxD in inches)	Weight (lbs)
T__-010k__	10	208/240/480	208Y/120	Hard-wire	30 x 21.5 x 29	440
T__-015k__	15	208/240/480	208Y/120	"	"	520
T__-025k__	25	208/240/480/600	"	"	44 x 21.5 x 29	700
T__-030k__	30	208/240/480/600	"	"	"	720
T__-045k__	45	"	"	"	44 x 45 x 29	950
T__-050k__	50	"	208/120-480/277	"	"	970
T__-075k__	75	480/600	"	"	"	1100
T__-100k__	100	480/600	"	"	"	1660
T__-125k__	125	"	"	"	"	1980
T__-150k__	150	"	"	"	"	2200
T__-225k__	225	"	"	"	77 x 56 x 41.5	3300
T__-300k__	300	"	"	"	"	4000

Model # T__-010k__ - Frequency rating 6=60 Hz; 5=50 Hz

Input options
B=208 VAC, C=240 VAC,
D=480 VAC, E=600 VAC

Output options
L=208/120 VAC (wye) Output;
N=480/277 VAC (wye) Output

kVA rating is indicated, as in this example, 010k = 10 kVA

- 75-300kVA are available with 480V/600V input only. Requires an additional auto-transformer for lower input voltage
- For 50 Hz model cabinet dimensions call factory
- Listings - UL listed, CSA Certified
- For output distribution option call factory
- k factor rated units available on request



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TPZ 700 101
Effective: April 2002