

# Staco® Voltage Regulator Competitive Analysis

Description	Staco® Voltage Regulator	Controlled Power Corp. 700A (Power Processor)	Online Power Corp. Power Reg	Notes on Staco Regulator
Technology	Variable Transformer Controlled, Series Regulation	Tap-switching Isolation Transformer	Tap-switching Isolation Transformer	Series regulation has no semiconductor switches in power path, increasing reliability.
Warranty	3 Years	1 Year	1 Year	Superior 3 year warranty.
ISO 9001 Quality Standard	Yes	Yes	Yes	Meets international Quality Standards
kVA Range	2.5 kVA - 2,000 kVa	5 kVA - 500 kVA	5 kVA - 300 kVA	Widest range for almost any application.
Input Voltage	100-600 VAC	208-600 Vac	208-600 VAC	Any standard or custom voltage.
Output Voltage	100-600 VAC	208-600 Vac	208-600 VAC	Any standard or custom voltage.
Input Regulation Range	+10% to -20%	+10% to -20%	+10% to -26%	Custom ranges available.
Output Regulation	1%	2.5% (3% max)		Tightest regulation available.
Output Impedance	<1%	3%	3% - 5%	Lower impedance means better dynamic regulation.
Unbalanced Load Regulation (100%)	+1% and -1%	3%	Not Specified	Tighter regulation.
Overload Capacity	33% for 2 hours 50% for 1 hour 100% for 15 minutes 1000% for 30 Cycles	200% for 10 seconds	1000% for 1 cycle 200% for 10 seconds	Significantly higher overload rating.
Reflected Harmonic Distortion	None plus load harmonics	1% plus load harmonics	1% plus load harmonics	No distortion added.
Harmonic Distortion Added	None	1%	1%	No distortion added.
Efficiency	> 98%	97%	96%	Higher efficiency means reduced cost of ownership.
Reliability (MTBF)	200,000 hours	Not specified	Not specified	The most reliable regulator on the market today.
Cooling	Convection	Convection	Not specified	No fans to fail.
Redundant Manual Control	Yes	No	No	Additional regulation protection.
Remote Voltage Sensor	Yes	No	No	Compensates for wiring losses.
Load Power Factor	Any	0.5 leading to 0.5 lagging	0.3 leading to 0.3 lagging	Supports any load, regardless of power factor.

Comparison data is based on information from Controlled Power Corp., Online Power Corp., and Staco Energy Products Co. Web sites as of 07/01/2010. Liebert Corp Data Wave no longer available. Controlled Power® and Online Power® are the registered trademarks of their respective owners. Any incorrect information is not intentional and will be corrected if/when found.

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