Power Protection and Conditioning

CVS Hardwired Series – Constant Voltage Transformers

Superior voltage regulation of $\pm 1\%$ sets the CVS series apart from other power conditioning technologies on the market. Extremely tight regulation is accomplished by Sola/Hevi-Duty's patented ferroresonant transformer technology. The CVS recreates a well regulated sinusoidal waveform that is well isolated from input disturbances including:

Impulses

Swells

Brownouts

- Sags
- · Severe waveform distortion

No other power conditioning technology provides as complete a solution against these power quality disturbances. The CVS series is ideal for applications where even a small change in voltage level can lead to unscheduled downtime, misoperation, incorrect data or scrapped production.

Features

- Superior voltage regulation of ±1%
- Surge suppression tested to ANSI/IEEE C62.41, Class A&B Waveform
- · Harmonic filtering
- Hardwired
- Acts as a Step-up/Step-down Transformer
- Galvanic isolation provides exceptional circuit protection.
- 25 year typical Mean Time Before Failure
- · No maintenance required







Applications

- Industrial automation and control equipment PLCs
- Analytical laboratory and factory automating equipment
- Photo processing equipment
- · Sound/recording systems
- · Photographic enlargers
- · Broadcast equipment

Related Products

- On-line UPS (S4K Industrial)
- Surge Suppression
- Three Phase Power Conditioners

Selection Tables: Single Phase

Group 1 - CVS Series, 60 Hz

VA	Catalog Number	Voltage Input	Voltage Output	Height (inch)	Width (inch)	Depth (inch)	Ship Weight (lbs)	Design Style	Elec Conn
30	23-13-030-2	120	120	7	4	5	9	1	J
60	23-13-060-2	120	120	7	4	5	9	1	J
120	23-22-112-2	120, 240	120	8	4	5	13	1	J
250	23-23-125-8	120, 240, 480	120	11	6	8	29	1	G
500	23-23-150-8	120, 208, 240, 480	120, 240	13	9	7	42	1	Н
1000	23-23-210-8	120, 208, 240, 480	120, 240	17	9	7	65	1	Н
2000	23-23-220-8	120, 208, 240, 480	120, 240	18	13	10	111	1	Н
3000	23-23-230-8	120, 208, 240, 480	120, 240	19	13	10	142	1	Н
5000	23-23-250-8	120, 208, 240, 480	120, 240	28	13	10	222	1	Н
7500*	23-28-275-6	240, 480	120, 240	27	25	9	365	2	J

^{*} This unit is not CSA Certified.

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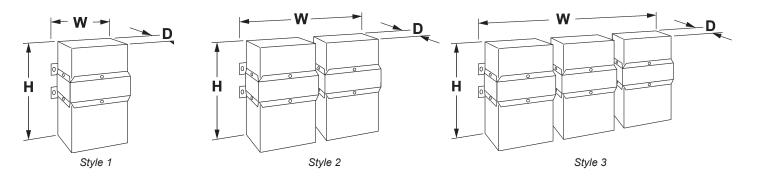
Specifications

Parameter	Condition	Value					
Input							
Voltage	Continuous at full load (lower input voltage possible at lighter load)	+10% to -20% of nominal					
	For temporary surge or sags	+20% to -35% of nominal					
Current ¹	at Full Load & 80% of nominal input voltage	$I_{in} \cong (VA/.87)/(V_{in} \times 80\%)$					
Frequency	See Operating Characteristics section for details.	60 HZ					
Output							
Line Regulation	V _{in} >80% and <110% of nominal	±1%					
Overload Protection	At Nominal Input Voltage	Current limited at 1.65 times rated current					
Output Harmonic Distortion	At Full Load within Input Range	3% total RMS content					
Noise Attenuation	-Common Mode -Transverse Mode	40 dB 40 dB					
	General						
Efficiency	At Full Load	Up to 92%					
Storage Temperature	Humidity <95% non-condensing	-20° to 80°C					
Operating Temperature	Humidity <95% non-condensing	-20° to 50°C					
Audible Noise	Full Resistive Noise	32 dBA to 65 dBA					
Approvals	60 Hz Models	UL1012, CSA ²					
Warranty	See General Information section for details	10 + 2 Years					

Notes:

- 1 Consult user manual for fuse sizing.
- 2 Applies to all models except 23-28-275-6.

Design Styles (CVS and MCR Hardwired)



These styles are single phase only.