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 SolaHD's ferroresonant transformer technology. The CVS recreates a well regulated sinusoidal waveform that is well isolated from input disturbances including:

- Impulses
- Brownouts
- Severe waveform distortion
- Swells
- Sags

Suitable Applications

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

Features & Benefits

- Superior voltage regulation of ±1%
- Surge protection 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 between failure
- Low maintenance required

Certifications and compliances

- . cULus Listed
 - UL 1012
- CSA C22.2 No. 107.1
- RoHS Compliant

Selection Tables: Single Phase Group 1 – CVS Series, 60 Hz

VA	Catalog Number	Voltage Input	Voltage Output	Height in (mm)	Width in (mm)	Depth in (mm)	Ship Weight lbs (kg)	Design Style	Elec Conn
120	23-22-112-2	120, 240	120	8.00 (203.2)	4.00 (101.6)	5.00 (127.0)	13.0 (5.90)	1	J
250	23-23-125-8	120, 240, 480	120	11.00 (279.4)	6.00 (152.4)	8.00 (203.2)	29.0 (13.15)	1	G
500	23-23-150-8	120, 208, 240, 480	120, 240	13.00 (330.2)	9.00 (228.6)	7.00 (177.8)	42.0 (19.05)	1	Н
1000	23-23-210-8	120, 208, 240, 480	120, 240	17.00 (431.8)	9.00 (228.6)	7.00 (177.8)	65.0 (29.48)	1	Н
2000	23-23-220-8	120, 208, 240, 480	120, 240	18.00 (457.2)	13.00 (330.2)	10.00 (254.0)	111.0 (50.35)	1	Н
3000	23-23-230-8	120, 208, 240, 480	120, 240	19.00 (482.6)	13.00 (330.2)	10.00 (254.0)	142.0 (64.41)	1	Н
5000	23-23-250-8	120, 208, 240, 480	120, 240	28.00 (711.2)	13.00 (330.2)	10.00 (254.0)	222.0 (100.70)	1	Н
7500 D	23-28-275-6	240, 480	120, 240	27.00 (685.8)	25.00 (635.0)	9.00 (228.6)	365.0 (165.56)	2	J

① This unit is [®] Listed only.

For more information: www.Emerson.com/SolaHD





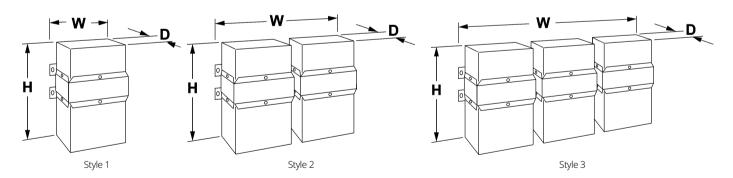


Specifications

Parameter	Condition	Value					
Input							
Male and	Continuous at full load (lower input voltage possible at lighter load)	+10% to -20% of nominal					
Voltage	For temporary surge or sags	+20% to -35% of nominal					
Current O	at Full Load & 80% of nominal input voltage	I _{in} ≅(VA/.87)/(Vin x 80%)					
Frequency	Please refer to catalog for more 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					
Warranty	10 year limited warranty						

O Consult user manual for fuse sizing.
It is recommended that the unit run at a minimum of 40-50% load. Please refer to catalog for more details.

Design Styles (CVS and MCR Hardwired)



 ${\rm \textcircled{O}}$ These styles are single phase only.

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