

**MCR Portable Series – Power Line Conditioning with Voltage Regulation**

The MCR provides excellent noise filtering and surge protection to protect connected equipment from damage, degradation or misoperation. Combined with the excellent voltage regulation inherent to SolaHD's ferroresonant design, they can increase the actual Mean Time Between Failure (MTBF) of protected equipment. These units are a perfect choice where dirty power caused by impulses, swell, sags, brownouts and waveform distortion can lead to costly downtime because of damaged equipment.



**Applications**

- Computers/ Printers
- Telephone/FAX systems
- POS terminals
- Security systems
- Laboratory equipment
- LAN networks

**Features**

- ±3% output voltage regulation
- Noise attenuation
  - 120 dB common mode
  - 60 dB transverse mode
- Surge protection tested to ANSI/IEEE C62.41 Class A & B waveform (<10 V let-through typical)
- Harmonic filtering
- Galvanic isolation provides exceptional circuit protection.
- Point-of-use protection (cord & plug connected)
  - Easy & Flexible Installation
- 25 year typical MTBF
- No maintenance required

**Certifications and Compliances**

**All Models**

- RoHS Compliant
- Listed
  - UL 1012

**Select Models**

- vs Listed (1500VA Units)
  - UL 1012, CSA C22.2 No. 66
- Certified (70VA-1kVA Units)
  - CSA C22.2 No. 66

**Related Products**

- DIN Rail AC UPS (SDU)
- Off-Line UPS (S1K Mini-Tower)
- Line-Interactive UPS (S3K Mini-Tower)

**Selection Tables: Single Phase**

**Group A – MCR Portable Series, 60 Hz**

VA	Catalog Number	Voltage Input/Output	Height in (mm)	Width in (mm)	Depth in (mm)	Ship Weight lbs (kg)	Receptacle (No.) Type (NEMA)	Plug (NEMA)
70	<b>63-13-070-6</b>	120	6.00 (152.4)	7.00 (177.8)	9.00 (228.6)	18.0 (8.16)	(4) 5-15R	5-15P
150	<b>63-13-115-6</b>	120	6.00 (152.4)	7.00 (177.8)	9.00 (228.6)	21.0 (9.53)	(4) 5-15R	5-15P
250	<b>63-13-125-6</b>	120	6.00 (152.4)	7.00 (177.8)	9.00 (228.6)	26.0 (11.79)	(4) 5-15R	5-15P
500	<b>63-13-150-6</b>	120	9.00 (228.6)	9.00 (228.6)	16.00 (406.4)	32.0 (14.51)	(4) 5-15R	5-15P
750	<b>63-13-175-6</b>	120	9.00 (228.6)	9.00 (228.6)	16.00 (406.4)	64.0 (29.03)	(4) 5-15R	5-15P
1000	<b>63-13-210-6</b>	120	9.00 (228.6)	9.00 (228.6)	16.00 (406.4)	69.0 (31.30)	(4) 5-15R	5-15P
1500*	<b>63-13-215-6</b>	120	11.00 (279.4)	11.00 (279.4)	17.00 (431.8)	95.0 (43.09)	(6) 5-15R	5-20P
2000	<b>63-13-220-6</b>	120	11.00 (279.4)	11.00 (279.4)	17.00 (431.8)	115.0 (52.16)	(4) 5-15R, (1) L5-30R	L5-30P
3000*	<b>63-13-230-6</b>	120	11.00 (279.4)	11.00 (279.4)	17.00 (431.8)	143.0 (64.86)	(4) 5-15R, (1) L5-30R	5-50P

\* vs

\* Only

Specifications

Parameter	Condition	Value
<b>Input</b>		
<b>Voltage</b>	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
<b>Current</b> <sup>1</sup>	At Full Load & 80% of nominal input voltage	$I_{in} \cong (VA/.89)/(V_{in} \times 80\%)$
<b>Frequency</b>	See Operating Characteristics section for details.	60 Hz depending on model
<b>Output</b> <sup>1</sup>		
<b>Line Regulation</b>	$V_{in} >80\%$ and $<110\%$ of nominal	$\pm 3\%$ for 60 Hz units
<b>Overload Protection</b>	At Nominal Input Voltage	Current limited at 1.65 times rated current
<b>Output Harmonic Distortion</b>	At full load within input range	3% total RMS content
<b>Noise Attenuation</b>	-Common Mode	120 dB
	-Transverse Mode	60 dB
<b>Let-Through</b>	ANSI/IEEE C62.41 Class A & B Waveform	$<10V$ typical
<b>General</b>		
<b>Efficiency</b>	At Full Load	92% Typical
<b>Storage Temperature</b>	Humidity $<95\%$ non-condensing	$-20^{\circ}$ to $+85^{\circ}C$
<b>Operating Temperature</b>	Humidity $<95\%$ non-condensing	$-20^{\circ}$ to $40^{\circ}C$
<b>Audible Noise</b>	Full Resistive Noise	35 dBA to 65 dBA
<b>Warranty</b>	10 + 2 year limited warranty	

Notes:

1 - It is recommended that the unit run at a minimum of 40-50% load.

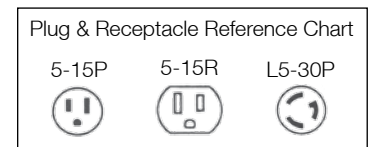
Back Panels



60 Hz, 70 – 1000 VA,  
(4) 5-15R Receptacles



60 Hz, 2000–3000 VA,  
(4) 5-15R and (1)  
L5-30R Receptacle



Model Comparison

Description	Hardwired CVS	Hardwired MCR	Portable MCR
<b>VA Ratings</b>	30 to 7500 VA	120 to 15000 VA	70 to 3000 VA
<b>Input Voltage Range</b>	+10/-20% of nominal		
<b>Voltage Regulation</b>	±1% for an input line variation of +10/-20%. No loss of output for line loss of 3 msec.	±3% for an input line variation of +10/-20% (50 Hz hardwired units ±5%). No loss of output for complete line loss of 3 msec.	
<b>Overload</b>	Limits output current to 1.65 x rated current at nominal input.		
<b>Output Harmonic Distortion</b>	3% total RMS content at full load.		
<b>Noise Isolation</b>	40 dB common and normal code.	120 dB common mode and 60 dB normal mode.	
<b>Surge Protection</b>	Up to 6000 Volt surges are suppressed to a let through of less than 1% per ANSI/IEEE C62.41 Class A & B waveforms.	ANSI/IEEE C62.41 Class A & B 6000 waveforms are suppressed to a let-through of less than 0.2%.	
<b>Efficiency</b>	Up to 92% at full load		Up to 90% at full load
<b>Operating Temperature</b>	-20°C to 50°C		-20°C to 40°C
<b>Audible Noise</b>	32 dB to 65 dB	35 dB to 65 dB	34 dB to 49 dB
<b>Warranty</b>	10 year limited warranty		

Note: All values are typical and may vary based on VA ratings of actual units.

BTU Output Chart for CVS and MCR Series

VA Ratings	120	250	500	750	1000	1500	2000	3000	5000	7500	10000	15000
<b>Total BTUs</b>	136	225	280	444	519	686	1229	1331	2117	2407	3209	4813

Note: Ratings are for a 40°C ambient temperature.