

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

- 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	63-13-070-6	120	6.00 (152.4)	7.00 (177.8)	9.00 (228.6)	18.0 (8.16)	(4) 5-15R	5-15P
150	63-13-115-6	120	6.00 (152.4)	7.00 (177.8)	9.00 (228.6)	21.0 (9.53)	(4) 5-15R	5-15P
250	63-13-125-6	120	6.00 (152.4)	7.00 (177.8)	9.00 (228.6)	26.0 (11.79)	(4) 5-15R	5-15P
500	63-13-150-6	120	9.00 (228.6)	9.00 (228.6)	16.00 (406.4)	32.0 (14.51)	(4) 5-15R	5-15P
750	63-13-175-6	120	9.00 (228.6)	9.00 (228.6)	16.00 (406.4)	64.0 (29.03)	(4) 5-15R	5-15P
1000	63-13-210-6	120	9.00 (228.6)	9.00 (228.6)	16.00 (406.4)	69.0 (31.30)	(4) 5-15R	5-15P
1500*	63-13-215-6	120	11.00 (279.4)	11.00 (279.4)	17.00 (431.8)	95.0 (43.09)	(6) 5-15R	5-20P
2000	63-13-220-6	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*	63-13-230-6	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

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* Only

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	$I_{in} \cong (VA/.89)/(V_{in} \times 80\%)$
Frequency	See Operating Characteristics section for details.	60 Hz depending on model
Output ¹		
Line Regulation	$V_{in} > 80\%$ and $< 110\%$ of nominal	$\pm 3\%$ for 60 Hz units
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	120 dB
	-Transverse Mode	60 dB
Let-Through	ANSI/IEEE C62.41 Class A & B Waveform	$< 10V$ typical
General		
Efficiency	At Full Load	92% Typical
Storage Temperature	Humidity $< 95\%$ non-condensing	-20° to $+85^{\circ}C$
Operating Temperature	Humidity $< 95\%$ non-condensing	-20° to $40^{\circ}C$
Audible Noise	Full Resistive Noise	35 dBA to 65 dBA
Warranty	10 + 2 year limited warranty	

Notes:

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

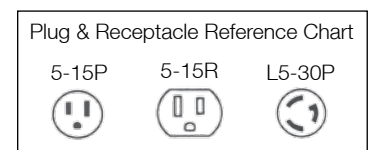
Back Panels



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
VA Ratings	30 to 7500 VA	120 to 15000 VA	70 to 3000 VA
Input Voltage Range	+10/-20% of nominal		
Voltage Regulation	±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.	
Overload	Limits output current to 1.65 x rated current at nominal input.		
Output Harmonic Distortion	3% total RMS content at full load.		
Noise Isolation	40 dB common and normal code.	120 dB common mode and 60 dB normal mode.	
Surge Protection	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%.	
Efficiency	Up to 92% at full load		Up to 90% at full load
Operating Temperature	-20°C to 50°C		-20°C to 40°C
Audible Noise	32 dB to 65 dB	35 dB to 65 dB	34 dB to 49 dB
Warranty	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
Total BTUs	136	225	280	444	519	686	1229	1331	2117	2407	3209	4813

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

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