

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 | 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 |

* Only

* 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.

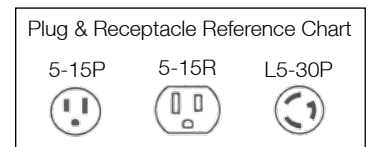
Back Panels



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.

Mouser Electronics

Authorized Distributor

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