

MCR & MPC Portable Series – Power Line Conditioning with Voltage Regulation

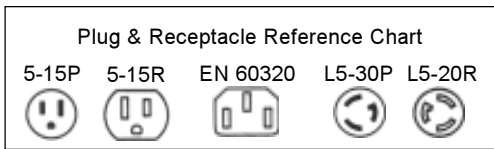
The MCR and MPC provide excellent noise filtering and surge protection to protect connected equipment from damage, degradation or misoperation. Combined with the excellent voltage regulation inherent to Sola/Hevi-Duty's patented ferroresonant design, they can increase the actual Mean Time Before Failure (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.



MCR Portable Series

Features

- $\pm 3\%$ output voltage regulation.
- Noise attenuation.
 - 120 dB common mode.
 - 60 dB transverse mode.
- Surge suppression 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.



Applications

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

Specifications

Parameter	Condition	Value
Input		
Voltage	Continuous at full load (lower input voltage possible at lighter load)	+10% to -20% of nominal
	For temporary surges or sags	+20% to -35% of nominal
Current	at Full Load & 80% of nominal input voltage	$I_{in} \approx (VA / .89) / (V_{in} * 80\%)$
Frequency	See Operating Characteristics section for details.	50 Hz or 60 Hz depending on model
Output		
Line Regulation	$V_{in} > 80\%$ and $< 110\%$ of nominal	$\pm 5\%$ for 50 Hz $\pm 3\%$ for 60 Hz
Overload Protection	At Nominal Input Voltage	Current limited at 2 times rated current
Output Harmonic Distortion		3% total RMS content at full load.
Noise Attenuation	-Common Mode -Transverse Mode	120 dB 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°C
Operating Temperature	Humidity < 95% non-condensing	-20° to 40°C
Audible Noise		35 dBA to 65 dBA
Approvals	60 Hz Models 50 Hz Models	UL1012 ¹ CSA (or cUL) ¹ CE (EMC & LVD)
Warranty	See General Information section for details	10 + 2 Years
Notes		
1 - Depending on model, see selection tables to confirm agency approvals for specific model numbers.		

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Selection Tables: Single Phase

Group A – MCR Portable Series, 60 Hz



VA	Catalog Number	Voltage Input/Output	Height (inch)	Width (inch)	Depth (inch)	Ship Weight (lbs)	Receptacle (No.) Type (NEMA)	Plug (NEMA)
70	63-13-070-6	120	6	7	9	18	(4) 5-15R	5-15P
150	63-13-115-6	120	6	7	9	21	(4) 5-15R	5-15P
250	63-13-125-6	120	6	7	9	26	(4) 5-15R	5-15P
500	63-13-150-6	120	9	9	16	32	(4) 5-15R	5-15P
750	63-13-175-6	120	9	9	16	64	(4) 5-15R	5-15P
1000	63-13-210-6	120	9	9	16	69	(4) 5-15R	5-15P
1500*	63-13-215-6	120	11	11	17	95	(6) 5-15R	5-20P
2000**	63-13-220-6	120	11	11	17	115	(4) 5-15R, (1) L5-30R	L5-30P
3000**	63-13-230-6	120	11	11	17	143	(4) 5-15R, (1) L5-30R	5-50P

*This unit is cUL_{us} certified.

**This unit is not CSA certified.

Group B –MCR Portable Series, 50 Hz (±5% output voltage regulation).



VA	Catalog Number	Voltage Input/Output	Height (inch)	Width (inch)	Depth (inch)	Ship Weight (lbs)	Receptacle (No.) Type (NEMA)	Plug (NEMA)
250	63-13-625-9	220 or 240	7	8	13	36	(2) IEC-320	3-WIRE PIGTAIL
500	63-13-650-9	220 or 240	9	9	16	45	(4) IEC-320	3-WIRE PIGTAIL
1000	63-13-710-9	220 or 240	9	9	16	54	(4) IEC-320	3-WIRE PIGTAIL
2000	63-13-720-9	220 or 240	10	11	17	118	(4) IEC-320	3-WIRE PIGTAIL

Group C –MPC Portable Medical Series, 60 Hz



VA	Catalog Number	Voltage Input/Output	Height (inch)	Width (inch)	Depth (inch)	Ship Weight (lbs)	Receptacle (No.) Type (NEMA)	Plug (NEMA)
250	63-13-125-7	120	6	7	9	26	(4) 5-15R	5-15P
500	63-13-150-7	120	9	9	16	32	(4) 5-15R	5-15P
1000	63-13-210-7	120	9	9	16	69	(4) 5-15R	5-15P

Back Panels



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



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



50 Hz, (1)IEC 320 Input Receptacle
250 VA (2)IEC 320 Receptacle
500–2000 VA (4)IEC 320 Receptacles



60 Hz, 250–1000 VA,
(4) 5-15R Isolated Ground
Hospital Grade Receptacles