

RIPPLE CHOKE FILTERS

RC SERIES



AMETEK Solidstate Controls Ripple Choke Filters are designed to help reduce the AC ripple current kickback that exists in battery chargers, inverters and UPS systems. This will help your batteries last longer, spare sensitive electronics the deterioration an excessive ripple current can cause and reduce electrical noise.

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PROVIDING CONTINUITY OF ELECTRICAL POWER

As your UPS system ages, an induced kickback AC ripple current and voltage may appear on the DC bus between the battery system and UPS. Over time this may result in the deterioration of the capacitors and other components of your UPS. Battery manufacturers suggest that excessive AC ripple current on the DC bus can adversely affect the life and performance of batteries. Typically the AC ripple current on the DC bus should not exceed 5% of the amp hour rating of the batteries. Protect your equipment from ripple current with the a Ripple Choke Filter.

We recommend regularly scheduled preventative maintenance, including the 10 year PM (PM 10), which will replace the DC capacitors and mitigate the AC ripple. If the replacement of DC capacitors does not reduce the AC ripple current to the desired level, then a RC Series AC Ripple Current Filter should be installed to further reduce AC ripple.

Part Number Reference						
UPS Size	Choke Size	Bus Voltage	Cabinet Dimensions		Weight	
			H x W x D Inches	H x W x D Millimeters	lb	kg
5 kVA	50 A	120 VDC	26 x 24 x 20	661 x 610 x 508	60	28
	50 A	240 VDC	26 x 24 x 20	661 x 610 x 508	60	28
7.5 kVA	50 A	240 VDC	26 x 24 x 20	661 x 610 x 508	60	28
	100 A	120 VDC	26 x 24 x 20	661 x 610 x 508	70	32
10 kVA	50 A	240 VDC	26 x 24 x 20	661 x 610 x 508	60	28
	100 A	120 VDC	26 x 24 x 20	661 x 610 x 508	70	32
15 kVA	100 A	240 VDC	26 x 24 x 20	661 x 610 x 508	70	32
	200 A	120 VDC	26 x 24 x 20	661 x 610 x 508	100	46
20 kVA	100 A	240 VDC	26 x 24 x 20	661 x 610 x 508	70	32
	200 A	120 VDC	26 x 24 x 20	661 x 610 x 508	100	46
30 kVA	200 A	240 VDC	26 x 24 x 20	661 x 610 x 508	100	46
	300 A	120 VDC	26 x 24 x 20	661 x 610 x 508	125	57
40 kVA	200 A	240 VDC	26 x 24 x 20	661 x 610 x 508	100	46
	400 A	120 VDC	26 x 24 x 20	661 x 610 x 508	325	148
50 kVA	300 A	240 VDC	26 x 24 x 20	661 x 610 x 508	125	57
	500 A	120 VDC	26 x 24 x 20	661 x 610 x 508	325	148

Notes:

- a. The size of the AC Ripple Filter is determined based on your UPS Size and DC bus voltage configuration. Refer to the table to select the part number for the desired AC Ripple Filter.
- b. The AC Ripple Filter comes standard with a disconnect breaker. As an option, the filter can be supplied without a breaker.
- c. The Solidstate Controls AC Ripple Filter is designed as a floor mount installation
- d. Installation, wiring and conduit sized and installed by customer within 50' of the Battery System and 50' of the Inverter.

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THE PURPOSE OF OUR BUSINESS IS TO PROVIDE CONTINUITY OF ELECTRICAL POWER TO KEEP BUSINESSES IN BUSINESS. WE DO THIS BY HELPING CLIENTS SOLVE THEIR POWER PROBLEMS AND BY CREATING THE MOST ECONOMICAL LONG-TERM RESULTS.