

- Follow all applicable NEC and local codes.

For four UPM external wiring requirements, including the minimum AWG size of external wiring, see Table 3-4 for installations using a common battery system or Table 3-5 for installations using a separate battery system. Wire sizes listed are for copper wiring only.

For three UPM external wiring requirements, including the minimum AWG size of external wiring, see Table 3-6 for installations using a common battery system or Table 3-7 for installations using a separate battery system. Wire sizes listed are for copper wiring only. Because of the future upgradability to a fully rated 1100 kVA UPS with the addition of the FI-UPM, the UPS wiring is specified for 1100 kVA in Table 3-6 and Table 3-7.

Table 3-4. Input/Output Ratings and External Wiring Requirements for the Four UPM Power Xpert 9395-1100/1000 and 9395-1100/1100 – Common Battery

		Units	Rating 50/60 Hz				
Basic Unit Rating		kVA kW	1000 910	1000 910	1100 1001	1100 1001	
Input and Output Voltage		Volts	400/400	480/480	400/400	480/480	
AC Input to UPS Rectifier (0.98 Minimum pF) Full load current plus battery recharge current (3) Phases, (1) Ground		A	Amps	1646	1372	1810	1509
Minimum Conductor Size Number per Phase			AWG or kcmil (each)	500 (6)	500 (5)	500 (6)	500 (5)
AC Input to UPS Bypass (Four Wire) Full Load Current (3) Phases, (1) Ground		B	Amps	1443	1203	1588	1323
Minimum Conductor Size Number per Phase			AWG or kcmil (each)	500 (5)	500 (4)	500 (5)	500 (5)
AC Input to UPS Bypass (Five Wire) Full Load Current (3) Phases, (1) Neutral, (1) Ground		B	Amps	1443	1203	1588	1323
Minimum Conductor Size Number per Phase			AWG or kcmil (each)	500 (6)	500 (5)	500 (6)	500 (6)
DC Input from Battery Disconnect to UPS (1) Positive, (1) Negative		C	Total Amps	2000	2000	2205	2205
Minimum Conductor Size Number per Pole			AWG or kcmil (each)	500 (8)	500 (8)	500 (9)	500 (9)
AC Output to Critical Load (Four Wire) Full Load Current (3) Phases, (1) Ground		D	Amps	1443	1203	1588	1323
Minimum Conductor Size Number per Phase			AWG or kcmil (each)	500 (5)	500 (4)	500 (5)	500 (5)

Table 3-4 Input/Output Ratings and External Wiring Requirements for the Four UPM Power Xpert 9395-1100/1000 and 9395-1100/1100 – Common Battery (continued)

Basic Unit Rating	Units	Rating 50/60 Hz			
	kVA	1000	1000	1100	1100
	kW	910	910	1001	1001
Input and Output Voltage	Volts	400/400	480/480	400/400	480/480
AC Output to Critical Load (Five Wire)					
Full Load Current (3) Phases, (1) Neutral, (1) Ground	Amps	1443	1203	1588	1323
Minimum Conductor Size	AWG or kcmil	500	500	500	500
Number per Phase	(each)	(6)	(5)	(6)	(6)

NOTE Callout letters **A**, **B**, **C**, and **D** map to Figure 6-5. Callout letters **A**, **C**, and **D** map to Figure 6-9.

NOTE Bypass wiring data is not applicable to IOM configurations.

Battery Conductor Sizing: Eaton strongly recommends using the specified DC conductor size and quantity shown above for optimum system performance and battery run time.

Battery Cable Routing Requirements

Conduit applications:

- * Each conduit must have a Positive, Negative, and Ground conductor.
- * There must be an equal number of positive and negative conductors in a single conduit. Only one ground conductor is required in each conduit.

Raceway applications:

- * Positive and negative battery cables must be run side by side in the raceway in an alternating pattern (+ - + - + -).
- * There must be a ground cable running in the raceway with the battery cables.