

AC-115 Hardware Manual Addendum

Electrical Characteristics

Operating Voltage

AC Input 16 VAC (Nominal)
 14 - 18 VAC (1.5 A, 25 VA)

The AC Input can also accept a DC source, polarity is not important:
24 VDC (Nominal)
20 - 28 VDC (1.5 A)

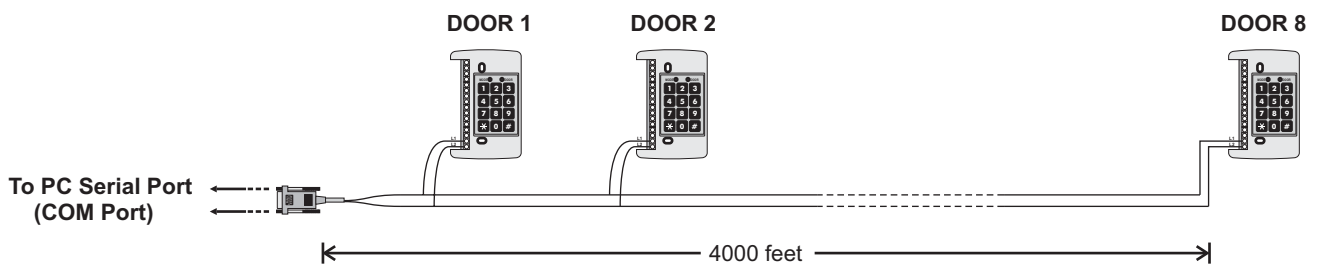
DC Battery Input 12 VDC (Nominal)
 10 - 16 VDC

Battery current draw depends on attached devices:
50 mA at 12V not including attached devices
1.5 A at 12V with attached devices e.g. lock, readers, etc.

Wiring Specifications

RS485 Communications Bus Twisted Pair, 22 Gage, shielded or unshielded.

Maximum total length 4000ft from PC to the furthest controller.
(see diagram below)



Reader to Controller

Rosslare readers are already shielded and grounded internally they do not require external grounding. If readers with shielding that are not manufactured by Rosslare are used, the shield must be grounded internally or externally but not both.

Rosslare recommends the cables listed in the table below.

Distance	Gage	5 Conductor	6 Conductor
200 ft. (61m)	22	Alpha 1295C	Alpha 1296C
300 ft. (91m)	20	Alpha 58126	Alpha 58126
500 ft. (153 m)	18	Alpha 58136	Alpha 58136