

Mamba

W (in)

5.02

5.02

3/4"

1-1/2"

1-1/2"

2.25

3.25

Specification Sheet UV-Rated Polycarbonate Junction Box

H (in)

5.02

5.02

Max Fitting Size Chart Mamba Model | Max Fitting Size (In)

ITEM NO.

MAMBA-442+

MAMBA-443+

442+

443+

663

884

A. System Specifications and Ratings

Maximum Voltage: 1,500 Volts

Maximum Current: 80 Amps (120 Amps for 884)

Allowable Wire: 14 AWG - 6 AWG (14-2/0 for 884) MAMBA-663 6.52 6.52 3.25 MAMBA-884 8.52 8.52 4.25 Spacing: Please maintain a spacing of at least 1/2" between uninsulated

Enclosure Rating: Type 3R

Roof Slope Range: 2-90 degrees (reference images in Mamba install manual)

Max Side Wall Fitting Size: *See Max Fitting Size Chart

Ambient Operating Conditions: (-35°C) - (+75°C)

Compliance:

UL1741, CSA C22.2 No. 290

Approved Wire Connectors: Must conform to UL1741

System Marking: Intertek Symbol and File #5029623

Periodic Re-inspections: If re-inspections yield loose components, loose fasteners, or any corrosion between components, components that are found to be affected are to be replaced immediately.

live part and fittings for conduit, armored cable, and uninsulated live parts of opposite polarity.

Table 1: Typical Wire Size, Torque Loads and Ratings

	1 Conductor	2 Conductor	Torque				
	Conductor	2 Conductor	Туре	NM	Inch Lbs	Voltage	Current
ABB ZS6 terminal block	10-24 awg	16-24 awg	Sol/Str	0.5-0.7	6.2-8.85	600V	30 amp
ABB ZS10 terminal block	6-24 awg	12-20 awg	Sol/Str	1.0-1.6	8.85-14.16	600V	40 amp
ABB ZS16 terminal block	4-24 awg	10-20 awg	Sol/Str	1.6-2.4	14.6-21.24	600V	60 amp
ABB M6/8 terminal block	8-22 awg		Sol/Str	.08-1	8.85	600V	50 amp
Ideal 452 Red WING-NUT WIRE Connector	8-18 awg		Sol/Str	Self-Torque	Self-Torque	600V	
Ideal 451 Yellow WING-NUT WIFE Connector	10-18 awg		Sol/Str	Self-Torque	Self-Torque	600V	
Ideal, In-Sure Past #39	10-14 awg		Sol/Str	Self-Torque	Self-Torque	600V	
WAGO, 2204-1201	10-20 awg	16-24 awg	Sol/Str	Self-Torque	Self-Torque	600V	30 amp
WAGO, 221-612	10-20 awg	10-24 awg	Sol/Str	Self-Torque	Self-Torque	600V	30 amp
Dottie DRC75	6-12 awg		Sol/Str	Snap-In	Snap-In		
ESP NG-53	4-6 awg		Sol/Str		45	2000V	
ESP NG-63	10-14 awg		Sol/Str		35		
ESP NG-717	4-6 awg		Sol/Str		45	2000V	
	10-14 awg		Sol/Str		35		
Brumall 4-5,3	4-6 awg		Sol/Str		45	2000V	
	10-14 awg		Sol/Str		35		

Table 2: Minimum wire-bending space for conductors through a wall opposite terminals in mm (inches)

		Wires per terminal (pole)							
Wire size, AWG or	1	2	3	4 or More					
kcmil (mm2)	mm (inch)	mm (inch)	mm (inch)	mm (inch)					
14-10 (2.1-5.3)	Not Specified	-	-	-					
8 (8.4)	38.1 (1-1/2)	-	-	-					
6 (13.3)	50.8 (2)	-	-	-					

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