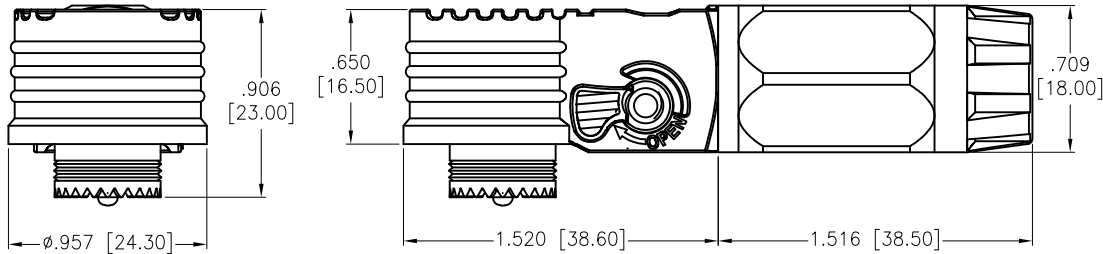


APPROVED: _____

DATE: _____ TITLE: _____

Rev	AWO #	Description	Date	Appr
-		RELEASED	12/18/23	
A		UPDATE DRAWING	7/26/24	LH/RC
B		UPDATE DRAWING	8/6/24	LH/RC
C		ADDED SPEC.	8/21/24	LH/RL

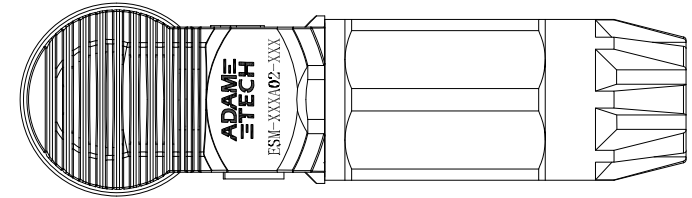


ESM-XXXXA02-XXX

Universal model: 120A, 090A

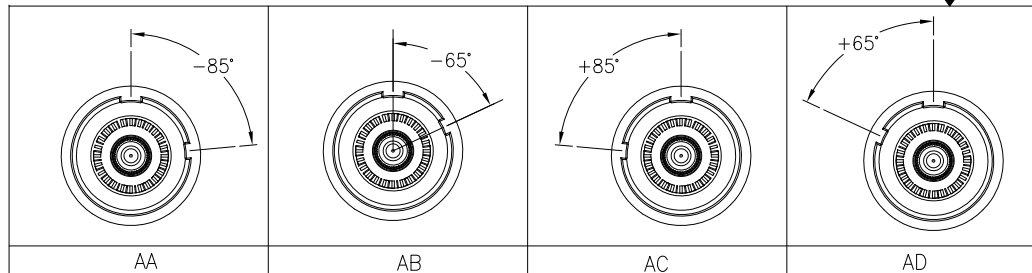
Key Options

Housing Color:
O=Orange
B=Black



laser marking
Orange is positive: (+)
black is negative: (-)

laser marking
See Chart



SPECIFICATIONS:

Connector:

Housing: PA66, Glass reinforced, rated UL 94V-0

Housing color: Orange/Black

Cap: PA66, Glass reinforced, rated UL 94V-0

Top: PA66, Glass reinforced, rated UL 94V-0

Waterproof ring: Silicone

Contact: Pure Red Copper, Silver plated Surface

Spring: SUS301

Electrical:

Voltage rating: 1000V DC

Current rating: 90A/120A

Contact resistance: 0.5 mohms max

Insulation resistance: 1,000 Mohms min

Dielectric withstanding voltage: 3,800V DC

Mechanical:

Durability: 500 cycles

Overvoltage Category/Pollution Degree: CATIII/3

Temperature Rating: -40°C to +125°C

Environmental:

Waterproof: IP67 (Mating)

Lead free, RoHS compliant



Recommend Strip Length
.571 [14.50]

Suitable wire gauge

Specification		Universal model
AWG American wire gauge	Wire standard: 4 AWG	120A
	Strand outer diameter: $\phi 6.47$ Max	
	O.D (Outside Diameter): $\phi 9.50$ Max	
International Wire Gauge	Wire standard: 25mm ²	090A
	Strand outer diameter: $\phi 7.20$ Max	
	O.D (Outside Diameter): $\phi 9.80$ Max	
AWG American wire gauge	Wire standard: 6 AWG	090A
	Strand outer diameter: $\phi 5.20$ Max	
	O.D (Outside Diameter): $\phi 8.50$ Max	
International Wire Gauge	Wire standard: 16mm ²	090A
	Strand outer diameter: $\phi 5.80$ Max	
	O.D (Outside Diameter): $\phi 8.00$ Max	

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS
ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

INCHES	HOLES
.X $\pm .10$	$\phi .X \pm .10$
.XX $\pm .020$	$\phi .XX \pm .015$
.XXX $\pm .015$	$\phi .XXX \pm .010$

DRAWN	WX	12/18/23
CHECKED	CK	12/18/23
APPROVED		

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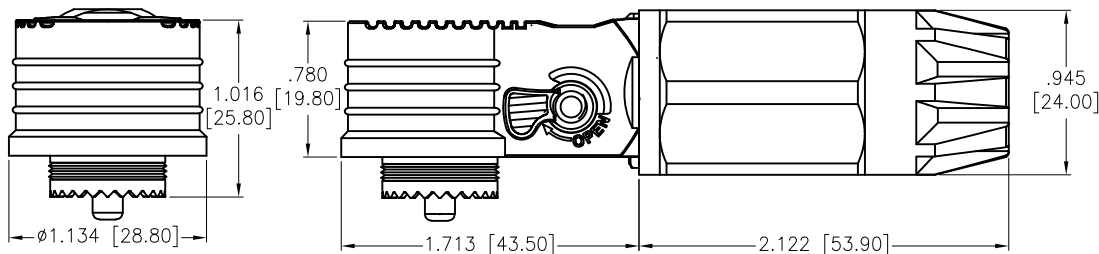
909 Rahway Avenue,
Union, NJ 07083
Phone: 908-687-5000
Fax: 908-687-5710

TITLE		ENERGY STORAGE CONNECTOR, MALE	
SIZE X	PART NO. ESM-XXXXA02-XXX	REV. C	
REF:	S00005C	SCALE: NTS	SHEET 1 OF 3

APPROVED: _____

DATE: _____ TITLE: _____

Rev	AWO #	Description	Date	Appr
SEE SHT 1 OF 3 FOR REVISION				

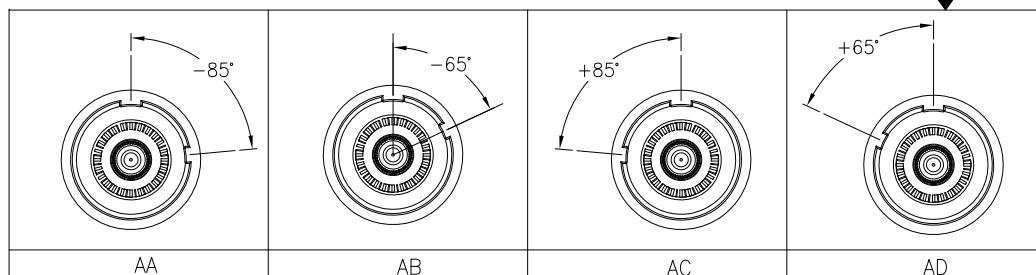


ESM-XXXA02-XXX

Universal model: 200A, 250A

KEY Options

Housing Color:
O=Orange
B=Black



SPECIFICATIONS:

Connector:

Housing: PA66, Glass reinforced, rated UL 94V-0

Housing color: Orange/Black

Cap: PA66, Glass reinforced, rated UL 94V-0

Top: PA66, Glass reinforced, rated UL 94V-0

Waterproof ring: Silicone

Contact: Pure Red Copper, Silver plated Surface

Spring: SUS301

Electrical:

Voltage rating: 1500V DC

Current rating: 200A/250A

Contact resistance: 0.5 mohms max

Insulation resistance: 1,000 Mohms min

Dielectric withstanding voltage: 6,800V DC

Mechanical:

Durability: 500 cycles

Overvoltage Category/Pollution Degree: CATIII/3

Temperature Rating: -40°C to +125°C

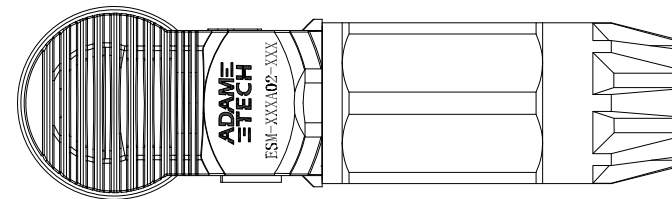
Environmental:

Waterproof: IP67 (Mating)

Lead free, RoHS compliant



Recommend Strip Length
.709 [18.00]



laser marking
Orange is positive: (+)
black is negative: (-)

laser marking
See Chart

Suitable wire gauge

Specification		Universal model
AWG American wire gauge	Wire standard: 2/0 AWG	250A
	Strand outer diameter: $\phi 11.6$ Max	
	O.D (Outside Diameter): $\phi 15.1$ Max	
International Wire Gauge	Wire standard: 70mm ²	200A
	Strand outer diameter: $\phi 12.2$ Max	
	O.D (Outside Diameter): $\phi 15.5$ Max	
AWG American wire gauge	Wire standard: 1/0 AWG	200A
	Strand outer diameter: $\phi 10.3$ Max	
	O.D (Outside Diameter): $\phi 14.2$ Max	
International Wire Gauge	Wire standard: 50mm ²	200A
	Strand outer diameter: $\phi 10.2$ Max	
	O.D (Outside Diameter): $\phi 13.5$ Max	

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS
ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

INCHES	HOLES
.X $\pm .10$	ϕ .X $\pm .10$
.XX $\pm .020$	ϕ .XX $\pm .015$
.XXX $\pm .015$	ϕ .XXX $\pm .010$

DRAWN	WX	12/18/23
CHECKED	CK	12/18/23
APPROVED		

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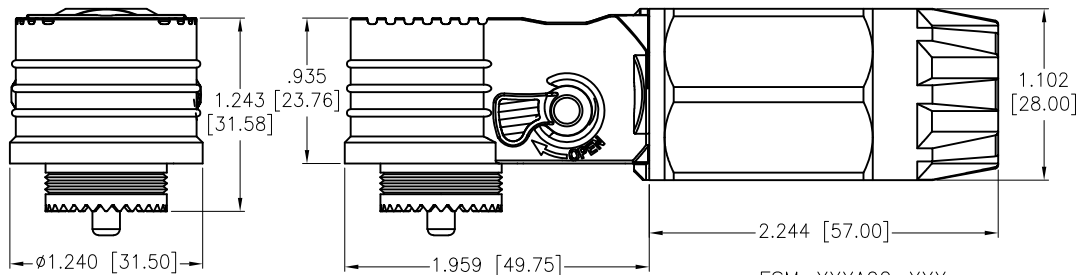
909 Rahway Avenue,
Union, NJ 07083
Phone: 908-687-5000
Fax: 908-687-5710

TITLE ENERGY STORAGE CONNECTOR, MALE			
SIZE X	PART NO. ESM-XXXA02-XXX	REV. C	
REF:	S00005C	SCALE: NTS	SHEET 2 OF 3

APPROVED: _____

DATE: _____ TITLE: _____

Rev	AWO #	Description	Date	Appr
SEE SHT 1 OF 3 FOR REVISION				

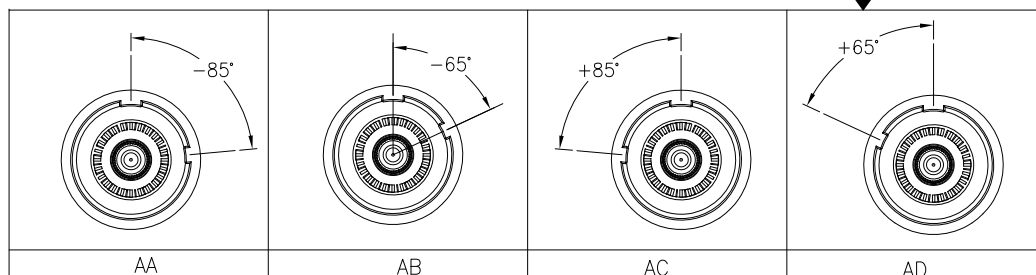


ESM-XXXXA02-XXX

Universal model: 350A, 300A

Key Options

Housing Color:
O=Orange
B=Black



SPECIFICATIONS:

Connector:

Housing: PA66, Glass reinforced, rated UL 94V-0

Housing color: Orange/Black

Cap: PA66, Glass reinforced, rated UL 94V-0

Top: PA66, Glass reinforced, rated UL 94V-0

Waterproof ring: Silicone

Contact: Pure Red Copper, Silver plated Surface

Spring: SUS301

Electrical:

Voltage rating: 1500V DC

Current rating: 300A/350A

Contact resistance: 0.5 mohms max

Insulation resistance: 1,000 Mohms min

Dielectric withstanding voltage: 6,800V DC

Mechanical:

Durability: 500 cycles

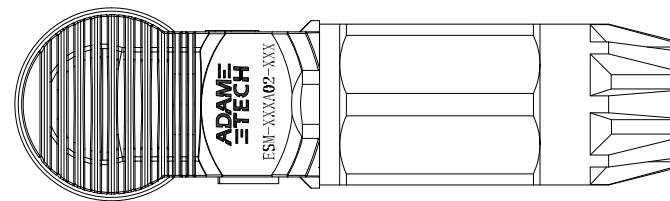
Overvoltage Category/Pollution Degree: CATIII/3

Temperature Rating: -40°C to $+125^\circ\text{C}$

Environmental:

Waterproof: IP67 (Mating)

Lead free, RoHS compliant



laser marking
Orange is positive: (+)
black is negative: (-)

laser marking
See Chart

Suitable wire gauge

Specification		Universal model
AWG American wire gauge	Wire standard: 4/0 AWG	350A
	Strand outer diameter: $\phi 14.7$ Max	
	O.D (Outside Diameter): $\phi 18.5$ Max	
International Wire Gauge	Wire standard: 95mm ²	300A
	Strand outer diameter: $\phi 14.2$ Max	
	O.D (Outside Diameter): $\phi 17.6$ Max	

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS
ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

INCHES	HOLES
.X $\pm .10$	ϕ .X $\pm .10$
.XX $\pm .020$	ϕ .XX $\pm .015$
.XXX $\pm .015$	ϕ .XXX $\pm .010$

DRAWN	WX	12/18/23
CHECKED	CK	12/18/23
APPROVED		

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909 Rahway Avenue,
Union, NJ 07083
Phone: 908-687-5000
Fax: 908-687-5710

TITLE		ENERGY STORAGE CONNECTOR, MALE	
SIZE	PART NO.	REV.	
X	ESM-XXXXA02-XXX	C	
REF:	S00005C	SCALE:	NTS
SHEET		3 OF 3	

Mouser Electronics

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