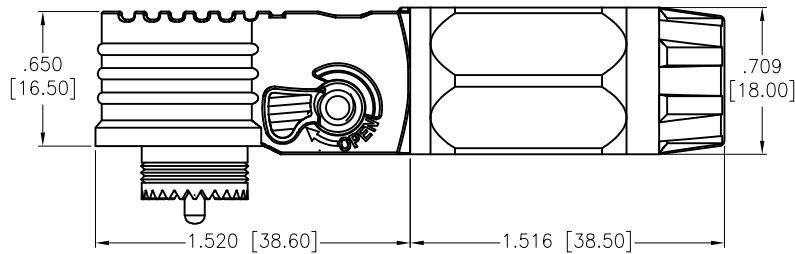
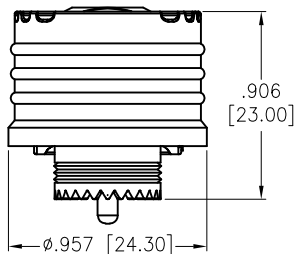


APPROVED: _____

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

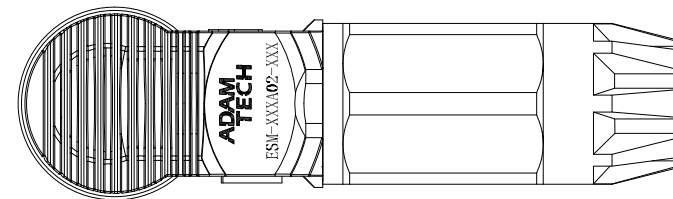


ESM-XXXXA02-XXX

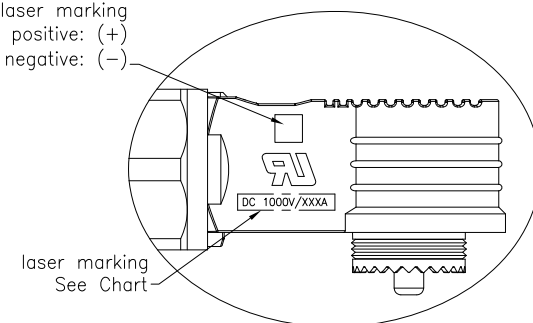
Universal model: 120A, 090A

Key Options

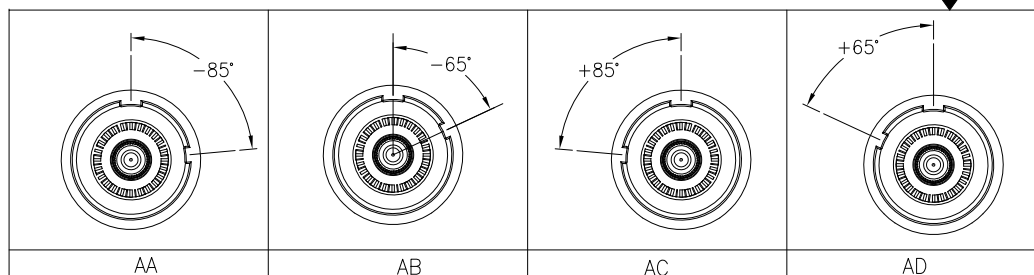
Housing Color:
O=Orange
B=Black



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



Suitable wire gauge

Specification		Universal model
AWG American wire gauge	Wire standard: 4 AWG	120A
	Strand outer diameter: Ø6.47 Max	
	O.D (Outside Diameter): Ø9.50 Max	
International Wire Gauge	Wire standard: 25mm ²	120A
	Strand outer diameter: Ø7.20 Max	
	O.D (Outside Diameter): Ø9.80 Max	
AWG American wire gauge	Wire standard: 6 AWG	090A
	Strand outer diameter: Ø5.20 Max	
	O.D (Outside Diameter): Ø8.50 Max	
International Wire Gauge	Wire standard: 16mm ²	090A
	Strand outer diameter: Ø5.80 Max	
	O.D (Outside Diameter): Ø8.00 Max	

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

INCHES		HOLES	
.X	± .10	Ø.X	± .10
.XX	± .020	Ø.XX	± .015
.XXX	± .015	Ø.XXX	± .010

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

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AND SHOULD NOT BE USED WITHOUT PRIOR WRITTEN
PERMISSION FROM ADAM TECH

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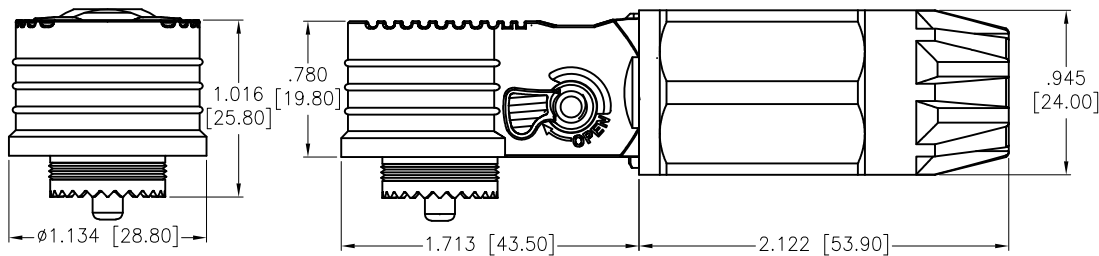
909 Rahway Avenue,
Union, NJ 07083
Phone: 908-687-5000
Fax: 908-687-5710

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				

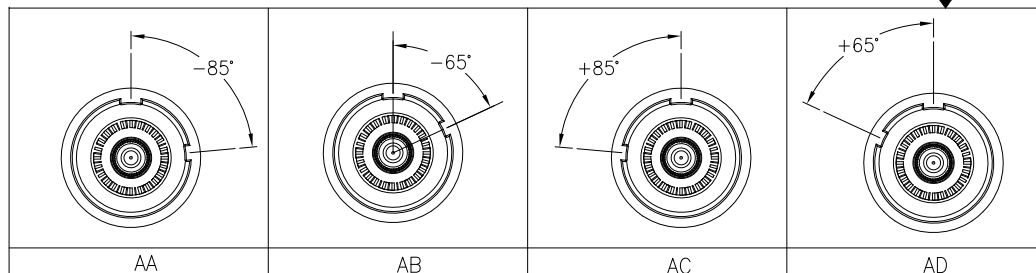


ESM-XXXA02-XXX

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

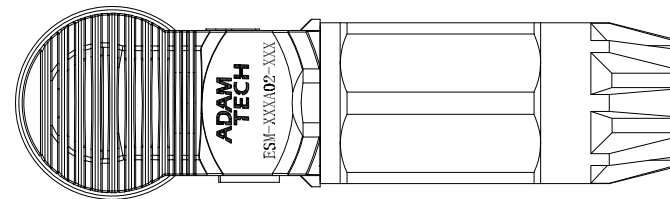
Overvoltage Category/Pollution Degree: CATIII/3

Temperature Rating: -40°C to +125°C

Environmental:

Waterproof: IP67 (Mating)

Lead free, RoHS compliant



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

laser marking
See Chart

Suitable wire gauge

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

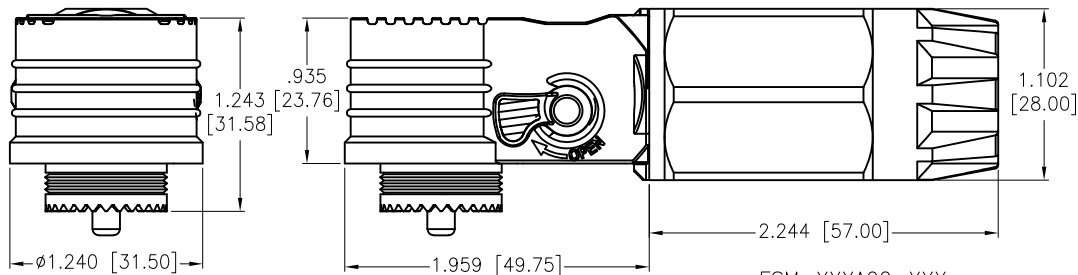
909 Rahway Avenue,
Union, NJ 07083
Phone: 908-687-5000
Fax: 908-687-5710

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

APPROVED: _____

DATE: _____ TITLE: _____

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

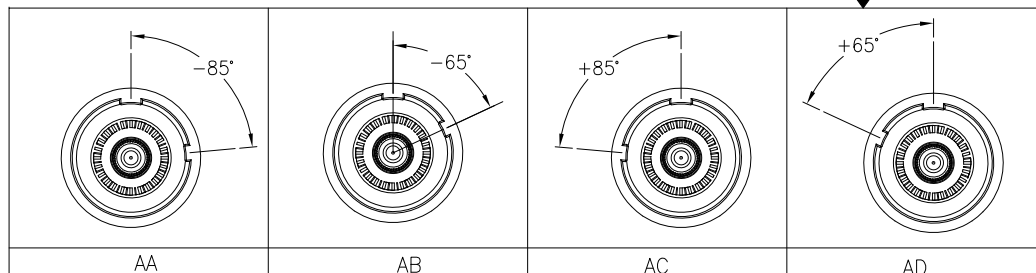


ESM-XXXXA02-XXX

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

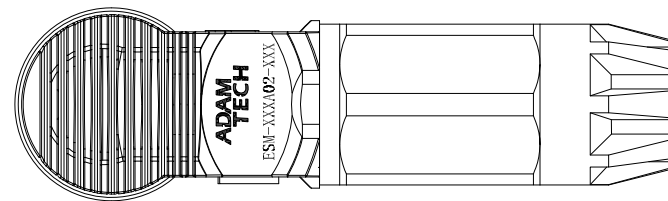
Overvoltage Category/Pollution Degree: CATIII/3

Temperature Rating: -40°C to +125°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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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 3 OF 3	