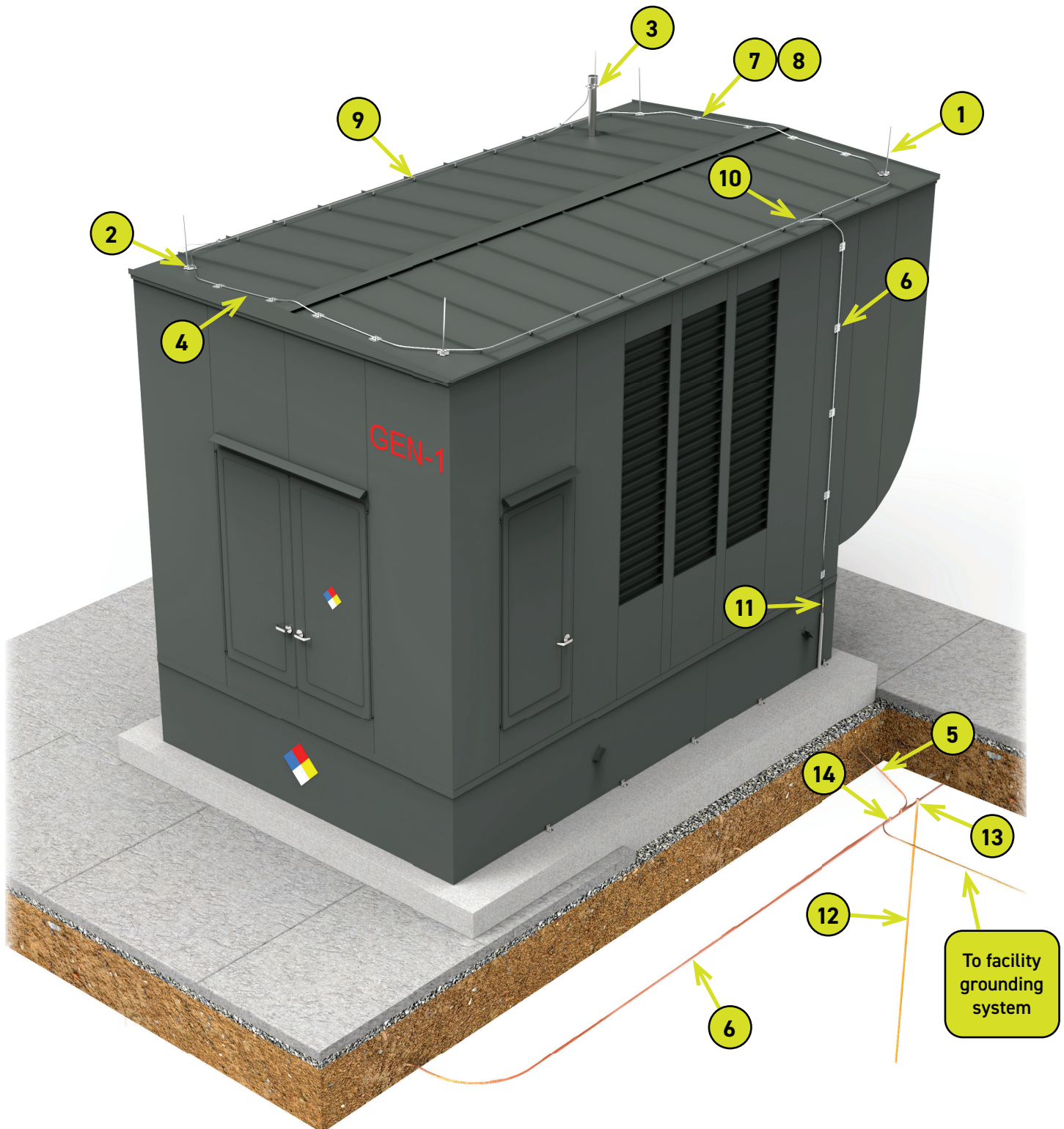


Emergency Power Supply (EPS) Lightning Protection



**Protection for your Mission Critical
Level 1 Life Safety Equipment**

Typical Emergency Power System Lightning Protection System



A lightning protection system compliant to NFPA 780¹ can help protect your Level 1 EPS from the damaging effects of a direct lightning strike. Incorporating this system into your NFPA 110² preventative maintenance plan is critical to ensuring reliable service when it is needed the most.

¹ NFPA 780, Standard for the Installation of Lightning Protection Systems, 2020th Edition

² NFPA 110, Standard for Emergency and Standby Power Systems, 2019th Edition

Lightning Protection Equipment

1

Air Terminals



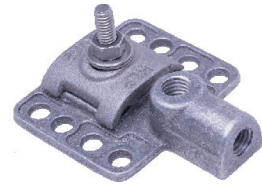
cUL US Listed 96

Part No.	Diameter	Length
1212ALAT	1/2"	12"
1216ALAT	1/2"	16"
1218ALAT	1/2"	18"
1224ALAT	1/2"	24"

• Other air terminal sizes available.

2

Universal Air Terminal Base



cUL US Listed 96

Part No.	Material	Air Terminal Diameter
AUBU12I	Aluminum	1/2"

• Accepts #14 bonding conductor up thru Class II main lightning conductor.

3

Vent Pipe Air Terminal Base



cUL US Listed 96

Part No.	Material	Air Terminal Diameter
APRB1.5/2AT12*	Aluminum	1/2"

* Nominal pipe size range 1.25" - 2"
 • Fits all main size conductors up to 9/16" diameter.
 • Other sizes available. Please contact factory.

4

Aluminum Lightning Conductor



cUL US Listed 96

Part No.	No. of Strands	Reel/Coil Size
A24-50COIL	24	50'
A24-100	24	100'
A24-250	24	250'

• Approximate diameter is 7/16" and 98,600 x-sectional area.

5

Copper Lightning Conductor

cUL US Listed 96



Part No.	No. of Strands	Reel/Coil Size
29-50COIL	29	50'
29-100	29	100'
29-250	29	250'
29-500	29	500'

• Approximate diameter 3/8" and 72,500 x-sectional area.
 • Electro Tin Plated conductors also available.

6

Copper Grounding Conductor

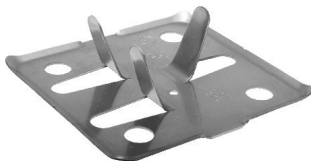


Part No.	Size (AWG)	CM Area	Approx. Wt. lbs./M ft.
1/0-19	1/0	105,600	325
2/0-19	2/0	133,100	410
3/0-19	3/0	167,800	518
4/0-19	4/0	211,600	653

• 19 strand Bare copper conductor shall meet the requirements of ASTM B-3 & ASTM B-787
 • Electro Tin Plated conductors also available

7

Adhesive Cable Holder



cUL US Listed 96

Part No.	Material
A262	Aluminum

• For use with all cables thru 4/0 or up to 9/16" diameter.

8

M1, Structural Sealants

Part No.	Color
M1-100Z-B	Black
M1-100Z-G	Gray
M1-100Z-L	Limestone
M1-100Z-W	White

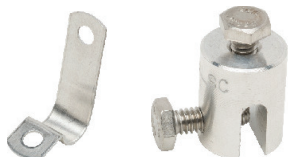


• 10.1 fluid oz. cartridge.
 • Application coverage (per tube) is approximately 40 cable holders or 40 bases.
 • For use on metal, masonry and wood. Not for use on TPO or hypalon roofs.
 • Install on clean surfaces in temperatures not below 30°F.

Lightning Protection Equipment

9

Standing Seam Clamp



cUL_{US} Listed 96

Part No.	Description	Material	Approx Box Wt. (lbs.)
ACC2	Cable Clip	Aluminum	1/2
ALSC	Standing Seam Clamp	Aluminum	3-1/4

- Designed for use on standing seam roof applications.
- Can be used on seams that have widths of 1/4" or less.

10

1 Bolt Parallel Cable Connector



cUL_{US} Listed 96

Part No.	Material	Class
A1BC	Aluminum	II

- Accepts all main size conductors up to 5/8" diameter.

11

Bi-Metal Cable Connector



cUL_{US} Listed 96

Part No.	Material	Class
211R	Bi-Metal	II

- Brass side accepts all main size conductors up to 17/32" diameter.
- Aluminum side accepts all main size conductors up to 19/32" diameter.

12

Copper-Clad Steel Ground Rods

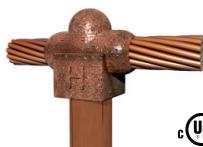
cUL_{US} Listed 467

Part No.	Size
588	5/8" x 8'
5810	5/8" x 10'
3410	3/4" x 10'
110	1" x 10'



13

"GO" Style Ultraweld Connection



(Horizontal Thru Cable to Top of Ground Rod)

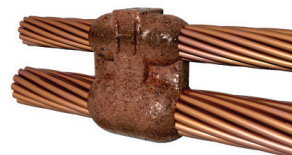
cUL_{US} Listed 467

Ground Rod Size*	Cable Size	Mold Part No.	Weld Metal	
			UltraShot	NUWTUBE
5/8"	29	GO5829B	US150	NUWTUBE150
	1/0	GO581/0B	US90	NUWTUBE90
	2/0	GO582/0B	US115	NUWTUBE115
	3/0	GO583/0B	US115	NUWTUBE115
	4/0	GO584/0B	US115	NUWTUBE115
3/4"	29	GO3429B	US150	NUWTUBE150
	1/0	GO341/0B	US115	NUWTUBE115
	2/0	GO342/0B	US115	NUWTUBE115
	3/0	GO343/0B	US115	NUWTUBE115
	4/0	GO344/0B	US115	NUWTUBE115

*Copper-Clad ground rod nominal dimensions.

14

"PT" Style Ultraweld Connection



(Parallel Thru Splice of Horizontal Cables, Tap Conductor Over Run)

cUL_{US} Listed 467

Cable Size		Mold Part No.	Weld Metal	
Run	Tap		UltraShot	NUWTUBE
29	29	PT2929B	US115	NUWTUBE115
1/0		PT1/029B	US90	NUWTUBE90
2/0		PT2/029B	US115	NUWTUBE115
3/0		PT3/029B	US150	NUWTUBE150
4/0		PT4/029B	US150	NUWTUBE150



Harger Lightning & Grounding

301 Ziegler Drive • Grayslake, IL 60030

Phone: 800-842-7437 • 847-548-8700

Website: www.harger.com • Email: hargersales@harger.com



GENLC-8.19