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Author

Jose R. Torres Irizarry, EIT (14613)
Engineer 2, Distribution Standards & Materials

Signature and Date:

Mar 27, 2025

Reviewer 1

Miguel J. Rios López, PE (Lic. 16636)
General Engineer, Distribution Standards & Materials

Signature and Date:

Mar 27, 2025

Approver

Ricardo Castro Gómez, PE (Lic. 12135)
Manager, Distribution Standards & Materials

Signature and Date:

Apr 2, 2025

Management Approval (If apply)

Approver

Name
Position

Signature and Date:

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086-87085	87085	1	March 27, 2025
086-87086	87086	1	March 27, 2025
086-87087	87087	1	March 27, 2025
086-87088	87088	1	March 27, 2025
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086-87160	87160	1	March 27, 2025
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1. Introduction

This is a general specification that covers the minimum requirements Identification Labels for Power Distribution Equipment to be used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site specific conditions, quantity, and other requirements. This document includes the general electrical and mechanical characteristics of the equipment/material.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this equipment/material to LUMA in previous orders will not have to furnish samples at bid opening. The equipment/material will be received at LUMA's general warehouse (011) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

3. Literature

- 3.1. Descriptive and technical literature must be supplied by the vendor at time of bidding. This literature must include, but is not limited to, details of material, drawings, documented testing, and instructions for use and installation. **The literature must be an official document from and certified by the manufacturer.** Failure to submit documents on time and duly certified by the manufacturer will cause bidder disqualification.
- 3.2. If required by LUMA, final drawings and documentation shall be submitted by the vendor before the manufacturing and shipping process for approval.

4. Compatible with

For compatible manufacturer and model see Table 2. These models are examples of the equipment/material described in this document and do not represent a preference. LUMA will evaluate equally any model not listed here during any acquisition event.

5. Markings

- 5.1. Containers shall be marked outside with LUMA Energy's purchase order and item number.
- 5.2. Individual package(s) shall be clearly marked with manufacturer name and item information (part number, serial number, quantity, etc.). Packaging labels and tags shall be waterproof.

6. Packaging

- 6.1. All equipment/material shall be packaged and marked in such a way as to facilitate handling and protection from damage and that the receiving warehouse can readily identify it and send it, in one complete unit, to a field location without opening crates or boxes to sort items and/or parts.
- 6.2. A list of all parts included in the container and/or package must be provided at the time of delivery so that the receiving personnel can verify that everything requested is present, avoiding any delay in the receiving process.

7. Number Per Package (Logistics)

The package contains 100 labels per character, as outlined in Table 2, or as otherwise specified by LUMA.

8. Acceptance Criteria

- 8.1. Test required: certified by external qualified laboratories.
- 8.2. Product shall be manufactured in accordance with the latest issue below (section 8). When conflicts occur between purchaser's specifications and the latest issue below, the purchaser's specification shall prevail.
- 8.3. Latest applicable codes, standards, and other regulations:
 - a. ANSI/ASTM, IEEE.
 - b. ASTM D 4956

- 8.4. If any other standard different from the ones indicated in this document is used, the supplier must provide information showing compatibility with the required ones.

9. Description

- 9.1. This label functions as a distinct and unequivocal identifier for assets and devices within the Power Distribution Equipment.
- 9.2. Label character consistency includes alphabetical letters from A to Z, numeric characters from 0 to 9, and special signs such as “– “and “. “.
- 9.3. There will be two distinct label sizes: 1 inch and 2 inches.
- 9.4. A set of 100 delivery labels featuring a specific character.
- 9.5. The background label is black, and the letter color is yellow.
- 9.6. The labels must have the following features:
- a. A robust non-metallic material with a permanent adhesive is applied to the backside.
 - b. Exhibiting resistance to weather, UV exposure, chemical abrasion, and alkali, this material ensures a minimum durability lifespan of at least 10 years. Should maintain dimensional stability over a temperature range of 0°F to 170°F (-17.78°C to 76.66°C).
 - c. Must be reflective and highly visible (excellent quality sheeting and ink).
 - d. Pre-cut High Intensity Reflective materials.
- 9.1. Storage & Organizers
- a. Customizable Handi-Packs storage organizers are specifically designed for 1-inch labels and offer flexible storage solutions. With 20 to 28 compartments and included dividers, you can easily create even more customized space.
 - b. Customizable Handi-Packs storage organizers are specifically designed for 2-inch labels and offer flexible storage solutions. With 20 to 28 compartments and included dividers, you can easily create even more customized space.
- 9.2. The supplier will be notified by LUMA about the exact character to be included in the label once the purchase order is given.

Table 1: Marker & Letter Dimensions

	MARKER SIZE	LETTER SIZE	BACK- GROUND COLOR	LETTER COLOR
LABEL 1"	1.11" H x 1.11" W	1"	BLACK	YELLOW
LABEL 2"	2.5" H x 1.5" W	2"	BLACK	YELLOW

10. Inspection

- 10.1. Upon inspection of incoming equipment/material, the purchaser reserves the right to refuse product shipments and to determine the acceptability or rejection of the product received. The supplier shall be liable for all costs incurred for a product that is rejected.
- 10.2. The acceptance of any equipment/material shall in no way relieve the vendor from his responsibility to meet all the requirements of this specification, and it would not prevent subsequent rejection if such equipment/materials were found later to be defective.

11. Proposal Information

- 11.1. Submitted proposals must include:
 - a. Technical information, drawings, and tests.
 - b. Table of Compliance completed by the bidder with reference (see Appendix 1).

Table 2: Warehouse and Asset Suite Identification Number.

1 " Labels				
Label Character	Warehouse Catalog #	Asset Suite #	Unit	Compatible Manufacturer & Model
A	086-87085	87085	ea.	ALMETEK, HIPS1.0RY-R_-CUTS A
B	086-87086	87086	ea.	ALMETEK, HIPS1.0RY-R_-CUTS B
C	086-87087	87087	ea.	ALMETEK, HIPS1.0RY-R_-CUTS C
D	086-87088	87088	ea.	ALMETEK, HIPS1.0RY-R_-CUTS D
E	086-87089	87089	ea.	ALMETEK, HIPS1.0RY-R_-CUTS E
F	086-87090	87090	ea.	ALMETEK, HIPS1.0RY-R_-CUTS F
G	086-87091	87091	ea.	ALMETEK, HIPS1.0RY-R_-CUTS G
H	086-87092	87092	ea.	ALMETEK, HIPS1.0RY-R_-CUTS H
I	086-87093	87093	ea.	ALMETEK, HIPS1.0RY-R_-CUTS I
J	086-87094	87094	ea.	ALMETEK, HIPS1.0RY-R_-CUTS J
K	086-87095	87095	ea.	ALMETEK, HIPS1.0RY-R_-CUTS K
L	086-87096	87096	ea.	ALMETEK, HIPS1.0RY-R_-CUTS L
M	086-87097	87097	ea.	ALMETEK, HIPS1.0RY-R_-CUTS M
N	086-87098	87098	ea.	ALMETEK, HIPS1.0RY-R_-CUTS N
O	086-87099	87099	ea.	ALMETEK, HIPS1.0RY-R_-CUTS O
P	086-87100	87100	ea.	ALMETEK, HIPS1.0RY-R_-CUTS P
Q	086-87101	87101	ea.	ALMETEK, HIPS1.0RY-R_-CUTS Q
R	086-87102	87102	ea.	ALMETEK, HIPS1.0RY-R_-CUTS R
S	086-87103	87103	ea.	ALMETEK, HIPS1.0RY-R_-CUTS S
T	086-87104	87104	ea.	ALMETEK, HIPS1.0RY-R_-CUTS T
U	086-87105	87105	ea.	ALMETEK, HIPS1.0RY-R_-CUTS U
V	086-87106	87106	ea.	ALMETEK, HIPS1.0RY-R_-CUTS V
W	086-87107	87107	ea.	ALMETEK, HIPS1.0RY-R_-CUTS W
X	086-87108	87108	ea.	ALMETEK, HIPS1.0RY-R_-CUTS X
Y	086-87109	87109	ea.	ALMETEK, HIPS1.0RY-R_-CUTS Y
Z	086-87110	87110	ea.	ALMETEK, HIPS1.0RY-R_-CUTS Z
1	086-87111	87111	ea.	ALMETEK, HIPS1.0RY-R_-CUTS 1
2	086-87112	87112	ea.	ALMETEK, HIPS1.0RY-R_-CUTS 2
3	086-87113	87113	ea.	ALMETEK, HIPS1.0RY-R_-CUTS 3
4	086-87114	87114	ea.	ALMETEK, HIPS1.0RY-R_-CUTS 4
5	086-87115	87115	ea.	ALMETEK, HIPS1.0RY-R_-CUTS 5
6	086-87116	87116	ea.	ALMETEK, HIPS1.0RY-R_-CUTS 6
7	086-87117	87117	ea.	ALMETEK, HIPS1.0RY-R_-CUTS 7
8	086-87118	87118	ea.	ALMETEK, HIPS1.0RY-R_-CUTS 8

9	086-87119	87119	ea.	ALMETEK, HIPS1.0RY-R_-CUTS 9
0	086-87120	87120	ea.	ALMETEK, HIPS1.0RY-R_-CUTS 0
-	086-87121	87121	ea.	ALMETEK, HIPS1.0RY-R_-CUTS -
.	086-87122	87122	ea.	ALMETEK, HIPS1.0RY-R_-CUTS .

2 " Labels				
Label Character	Warehouse Catalog #	Asset Suite #	Unit	Compatible Manufacturer & Model
A	086-87125	87125	ea.	ALMETEK, HIPS2.0RY_R-CUT A
B	086-87126	87126	ea.	ALMETEK, HIPS2.0RY_R-CUT B
C	086-87127	87127	ea.	ALMETEK, HIPS2.0RY_R-CUT C
D	086-87130	87130	ea.	ALMETEK, HIPS2.0RY_R-CUT D
E	086-87131	87131	ea.	ALMETEK, HIPS2.0RY_R-CUT E
F	086-87128	87128	ea.	ALMETEK, HIPS2.0RY_R-CUT F
G	086-87129	87129	ea.	ALMETEK, HIPS2.0RY_R-CUT G
H	086-87132	87132	ea.	ALMETEK, HIPS2.0RY_R-CUT H
I	086-87133	87133	ea.	ALMETEK, HIPS2.0RY_R-CUT I
J	086-87134	87134	ea.	ALMETEK, HIPS2.0RY_R-CUT J
K	086-87135	87135	ea.	ALMETEK, HIPS2.0RY_R-CUT K
L	086-87136	87136	ea.	ALMETEK, HIPS2.0RY_R-CUT L
M	086-87137	87137	ea.	ALMETEK, HIPS2.0RY_R-CUT M
N	086-87138	87138	ea.	ALMETEK, HIPS2.0RY_R-CUT N
O	086-87139	87139	ea.	ALMETEK, HIPS2.0RY_R-CUT O
P	086-87140	87140	ea.	ALMETEK, HIPS2.0RY_R-CUT P
Q	086-87141	87141	ea.	ALMETEK, HIPS2.0RY_R-CUT Q
R	086-87142	87142	ea.	ALMETEK, HIPS2.0RY_R-CUT R
S	086-87143	87143	ea.	ALMETEK, HIPS2.0RY_R-CUT S
T	086-87144	87144	ea.	ALMETEK, HIPS2.0RY_R-CUT T
U	086-87145	87145	ea.	ALMETEK, HIPS2.0RY_R-CUT U
V	086-87146	87146	ea.	ALMETEK, HIPS2.0RY_R-CUT V
W	086-87147	87147	ea.	ALMETEK, HIPS2.0RY_R-CUT W
X	086-87148	87148	ea.	ALMETEK, HIPS2.0RY_R-CUT X
Y	086-87149	87149	ea.	ALMETEK, HIPS2.0RY_R-CUT Y
Z	086-87150	87150	ea.	ALMETEK, HIPS2.0RY_R-CUT Z
1	086-87151	87151	ea.	ALMETEK, HIPS2.0RY_R-CUT 1
2	086-87152	87152	ea.	ALMETEK, HIPS2.0RY_R-CUT 2
3	086-87153	87153	ea.	ALMETEK, HIPS2.0RY_R-CUT 3
4	086-87154	87154	ea.	ALMETEK, HIPS2.0RY_R-CUT 4
5	086-87155	87155	ea.	ALMETEK, HIPS2.0RY_R-CUT 5

6	086-87156	87156	ea.	ALMETEK, HIPS2.0RY_R-CUT 6
7	086-87157	87157	ea.	ALMETEK, HIPS2.0RY_R-CUT 7
8	086-87158	87158	ea.	ALMETEK, HIPS2.0RY_R-CUT 8
9	086-87159	87159	ea.	ALMETEK, HIPS2.0RY_R-CUT 9
0	086-87160	87160	ea.	ALMETEK, HIPS2.0RY_R-CUT 0
-	086-87161	87161	ea.	ALMETEK, HIPS2.0RY_R-CUT -
.	086-87162	87162	ea.	ALMETEK, HIPS2.0RY_R-CUT .

Item	Warehouse Catalog #	Asset Suite #	Unit	Compatible Manufacturer & Model
Storage Organizers Designed for 1- Inch Labels	086-87123	87123	ea.	ALMETEK, HP-KIT-EMPTY
Storage Organizers Designed for 2- Inch Labels	086-87124	87124	ea.	ALMETEK, VER-KIT-CS-2.5

—End of Specification —

Appendix

Appendix 1: Table of Compliance

Line	Description	Pass/Fail	Comments
1	Complies with document 4350.354		
2	Industry Standards: ANSI/ASTM (Z535), IEEE.		
3	Tech. info.		
4	label sizes: 1 inch and 2 inches		
5	Background label is black, and the letter color is yellow		
6	Robust non-metallic material with a permanent adhesive is applied to the backside.		
7	Exhibiting resistance to weather, UV exposure, chemical abrasion, and alkali, this material ensures a minimum durability lifespan of at least 10 years.		
8	Should maintain dimensional stability over a temperature range of 0°F to 170°F (-17.78°C to 76.66°C).		
9	Must be reflective and highly visible (excellent quality sheeting and ink).		
10	Pre-cut High Intensity Reflective materials		
11	A strong and permanent adhesive is applied to the rear surface.		
12	Handi-Packs storage organizers designed for 1-inch		
13	Handi-Packs storage organizers designed for 2-inch		

NOTE: This table is only a checklist for reference. The compliance must be with the complete document. Filling out the table with “PASS” won’t be accepted as a compliance without the technical information required to certify it.

4350.354 Identification Labels for Power Distribution Equipment

Final Audit Report

2025-04-02

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