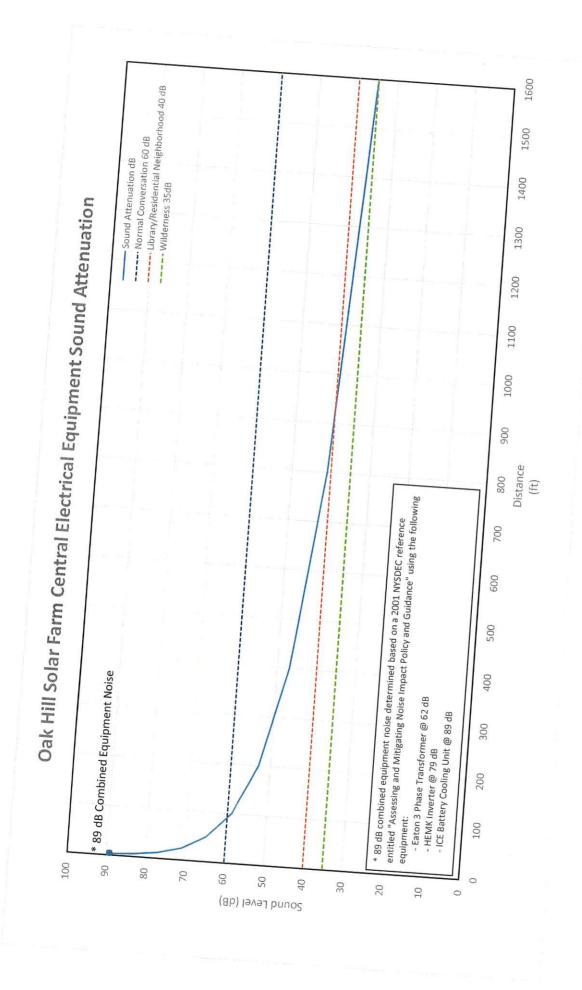
ICE - ECUA150ACD Battery Air Conditioner Unit

Distance From	Eggs	1	Letters !	Model Num	CUA product A	ir Conditioners	(dBA)
Unit (Feet)	ECUA90ACD	ECUA120ACD	ECUA150ACD	ECUDAISOACD	ECUDA240ACD	ECUDA300ACD	
5	82	84	84*			- TO TO THE D	ECUDA360AC
10	78	79		85	87	88	88
20	73	73	79	80	82	84	83
30	70	72	73	75	76	78	
40	69	70	72	73	75	76	78
50	67	69	70	72	73	74	76
60	65		69	70	72	71	75
70	63	67	67	68	70	70	73
80	-	65	65	67	68	70	71

(2) Background Sound Pressure Level: 30-33 dBA

(3) Sound Level Meter 1 Meter Above Ground Directly in Line with Outdoor Coil

^{*} Extrapolating to distance of 3 feet from unit suggests sound level of 88.8 (say 89) dB.





Sound Attenuation Study

Bill Pedersen

bpedersen@amp.energy>

Tue, Aug 24, 2021 at 5:55 PM

To: Travis Mitchell tmitchell@edplip.com, Kevin Foster kfoster@amp.energy, Nicole LeBlanc nleblanc@amp.energy, Gillian Black

Hi Travis,

Thank you again for the help on the glare study revision. We wanted to run another last-minute request by you. How long would it take to create an equipment sound attenuation chart, similar to the one I have attached? If it is possible to receive it by the end of the week, could we We would be modeling one of our equipment pads with:

- -inverter = 79 dB at 1 meter (cut sheet attached)
- -Transformer = standard value, we see you used 62 Db for Eden
- -battery = 84 dBa at 5 ft (chart attached, use the ECUA150 column)

The plan is to model a single equipment pad (not all 4) that we will say is closest to Lynn's property line. Let us know if this is something you think EDP can help us with. Thanks,

Bill



Bill Pedersen

Senior Manager, Execution

M (781) 234-8743

Skype billpedersen91@gmail.com

bpedersen@amp.energy

amp.energy

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battery noise_Highlighted.PNG







4 TECHNICAL INFORMATION

Tracker type					
System incline in north-south direction relation to torroin	Single-axis horizontal tracker				
in relation to terrain slope	Parallel to the course of the terrain				
Module layout					
Output per machine	2 vertical or 4 horizontal (standard)				
	Approx. 80 kWp (module-specific), max. 240 PV modules				
Tracking range					
Lock position	up to 120° (+/- 60°)				
Storm position and night position	In all holding positions (every 3°)				
Tracking interval	9°				
Travel and partial	site-specific				
Travel angle per interval	3°				
Slope south/north	maximum 10°				
Terrain slope east/west	maximum 10°				
Covered area (GCR)					
Temperature range	> 50 possible (site-specific)				
Tracking method	- 25°C to +60°C / -13°F to140°F				
	Astronomical calculation based on location and time				
Backtracking	The state of the s				
Snow position	Yes				
Maintenance position	Yes				
Noise emission	Yes				
Maximum operational mounted load	< 70 dB(A)				
operational mounted load	According the structural calculation				

Dimensions (depending on Module area	module, construction site and/or design	gn)
Drives per MWp	Up to approx. 480 m² approx. 12-18 (site-specif	up to approx. 5167

2.4 Mechanical and Environmental Specification

Operating Ambient Temperature:

Stand-by Temperature:

Storage Temperature:

Maximum Altitude:

Relative Humidity:

Enclosure Rating:

Enclosure Dimensions:

Weight:

Cable Connections:

Cooling:

Acoustic Rating:

Service Clearance:

-25 to +55°C (see derating curve)

-40 to +60°C

-40 to +70°C

1,000m above sea-level without de-rating

95% non-condensing Outdoor NEMA 3R (IP54)

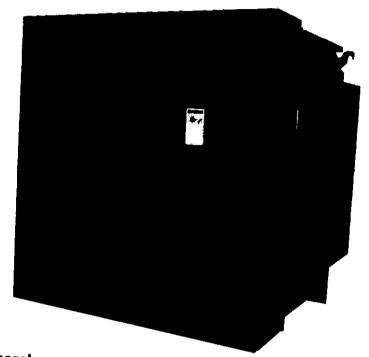
33.5" x 39.4" x 80.5" (I x w x h)

1,300 lbs.

Bottom or Side Entry Forced air-cooled <85dBA at 1m

28" front and back (Dwg. for detail)

Three-phase pad-mounted compartmental type transformer



General

At Eaton, we are constantly striving to introduce new innovations to the transformer industry, bringing you the highest quality, most reliable transformers. Eaton's Cooper Power series Transformer Products are ISO 9001 compliant, emphasizing process improvement in all phases of design, manufacture, and testing. In order to drive this innovation, we have invested both time and money in the Thomas A. Edison Technical Center, our premier research facility in Franksville, Wisconsin. Such revolutionary products as distribution-class UltraSIL™ Polymer-Housed Evolution™ surge arresters and Envirotemp™ FR3™ fluid have been developed at our Franksville lab.

With transformer sizes ranging from 45 kVA to 12 MVA and high voltages ranging from 2400 V to 46 kV, Eaton has you covered. From fabrication of the tanks and cabinets to winding of the cores and coils, to production of arresters, switches, tap changers, expulsion fuses, current limit fuses, bushings (live and dead) and molded rubber goods, Eaton does it all. Eaton's Cooper Power series transformers are available with electrical grade mineral oil or Envirotemp™ FR3™ fluid, a less-flammable and bio-degradable fluid. Electrical codes recognize the advantages of using Envirotemp™ FR3™ fluid both indoors and outdoors for fire sensitive applications. The biobased fluid meets Occupational Safety and Health Administration (OSHA) and Section 450.23 NEC Requirements.



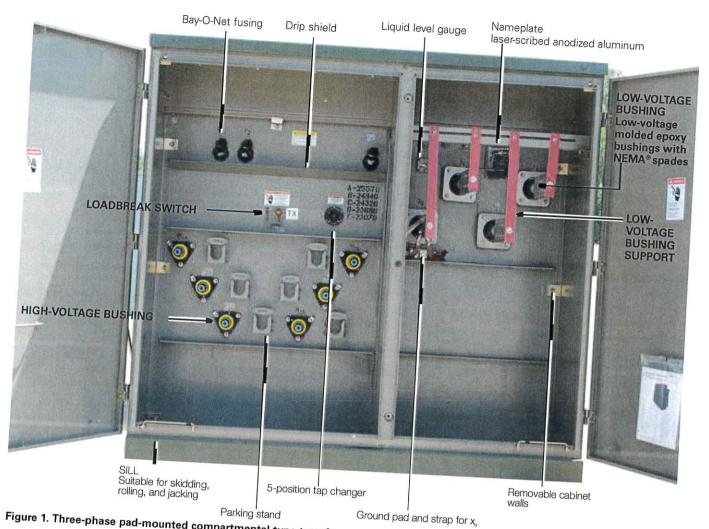


Figure 1. Three-phase pad-mounted compartmental type transformer.

Table 1. Product Scope

Туре	Three Phase, 50 or 60 Hz, 65 °C Rise (55 °C, 55/65 °C), 65/75 °C, 75 °C				
Fluid Type					
Coil Configuration	Mineral oil or Envirotemp™ FR3™ fluid				
Size	2-winding or 4-winding or 3-winding (Low-High-Low), 3-winding (Low-Low-High) 45 — 10,000 kVA				
Primary Voltage	2,400 – 46,000 V				
Secondary Voltage	208Y/120 V to 14,400 V				
	Inverter/Rectifier Bridge				
	K-Factor (up to K-19)				
	Vacuum Fault Interrupter (VFI)				
Procint B	UL® Listed & Labeled and Classified				
Specialty Designs	Factory Mutual (FM) Approved®				
	Solar/Wind Designs				
	Differential Protection				
	Seismic Applications (including OSHPD)				
	Hardened Data Center				

Eaton CA202003EN Three Phase Transformer

Table 2. Three-Phase Ratings

Three-Phase 50 or 60 Hz

kVA Available¹

45, 75, 112.5, 150, 225, 300, 500, 750, 1000, 1500, 2000, 2500, 3000, 3750, 5000, 7500, 10000

¹Transformers are available in the standard ratings and configurations shown or can be customized to meet specific needs.

Table 3. Impedance Voltage

	Low-voltage ra	ating	
Rating (kVA)	≤ 600 V		
45-75	2.70-5.75	2400 Δ through 4800 Δ	6900 Δ through 13800GY/7970 or 13800 Δ
112.5-300	3.10-5.75	2.70-5.75	2.70-5.75
500	1000000	3.10-5.75	3.10-5.75
750-2500	4.35-5.75	4.35-5.75	4.35-5.75
3750	5.75	5.75	5.75
5000	5.75	5.75	- ALCOHOLD
		6.00	6.00
ote: The standard to	olerance is ± 7.5%	5.00	6.50

Table 4. Audible Sound Levels

Self-Cooled, Two Winding kVA Rating	NEMA®TR-1 Average	
45-500	Decibels (dB)	
501-700	56	
701-1000	57	
1001-1500	58	
1501-2000	60	
2001-2500	61	
MODEL CONTROL OF THE PARTY OF T	62	
2501-3000	63	
001-4000	64	
001-5000	65	
001-6000	66	
001-7500	67	
501-10000	68	

Table 5. Insulation Test Levels

KV Class	Induced Test 180 or 400 Hz 7200 Cycle		
1.2	1 200 Gycle	kV BIL Distribution	Applied Test 60 Hz (kV)
2.5		30	10
5	*	45	15
8.7	T	60	19
15	Twice Rated Voltage	75	26
25		95	34
34.5		125	40
		150	50

Table 6. Temperature Rise Ratings 0-3300 Feet (0-1000 meters)

	(a loop meters)		
Unit Rating (Temperature Rise Winding)	Standard	Optional	
Ambient Temperature Max	65 °C	55 °C, 55/65 °C, 75 °C	
	40 °C	50 °C	
Ambient Temperature 24 Hour Average	30 °C		
Temperature Rise Hotspot	80 °C	40 °C	
	00 C	65 °C	

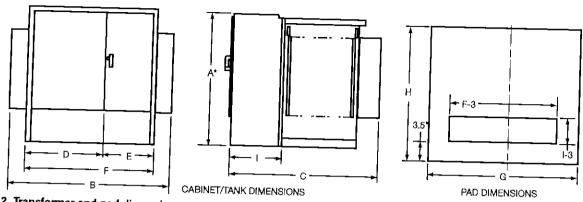


Figure 2. Transformer and pad dimensions.

Table 7. Fluid-filled—aluminum windings 55/65 °C Rise¹

kVA Rating	OUTU	NE DIMENS	ions (in.)	WILL FEED	BAY-O-NET F	USING OIL	FILLED-AL	IM MUNIMU	NDINGS		
	Α*	В	С	Δ_	E		G			Gallons of	Approx. Tota
45	50	68	39	42	26	68		<u> </u>		Fluid	Weight (lbs.)
75	50	68	39	42	26		72	43	20	110	2,100
12.5	50:	68	49	42	26	- 68	72	43	20	. 115	2,250
50	50	68	49	42		. 68	1/2	53	20	120	2,350
25	50	72			<u>26</u>	. 68	72	53	20	125	2,700
100	50	72	51	42	30	72	76	55	20	140	3,150
00	50	89		42	30	72	76	55	20	160	3,650
50	64	89	53	42	.30	72	93	57	20	190	4.650
000	64		57	, 42	30	72	93	61	20	270	
500		89	59	42	30	72	.93	63	20	350	6,500
000		89	86	: 42	30	: 72	93	90	24		8,200
	73	72	87	42	30	72	76:	91	24	410	10,300
500	73	<u>72</u>	<u>99</u>	42	30	72	76	103		490	12,500
000	73	84	99	46	37	84	88		24	<u>530</u>	14,500
50	84	85	108	: 47	38	85		103	24	620	16,700
00	84	96	108	48	48	96	88	112	24	660_	19,300
00	94	102	122	54	48		100	112	24	930	25,000
eights gallogs of					40	102	100	126	24	1,580	41,900

¹ Weights, gallons of fluid, and dimensions are for reference only and not for construction. Please contact Eaton for exact dimensions.

Table 8. Fluid-Filled - Copper Windings 55/65 °C Rise¹

65° Rise	DEAD	FRONT-LO	OP OR RAD	IAL FEED	RAVO NET I	HCING OF		PPER WIND			
	OUTL										
kVA Rating	Α*	В	С	D	E	F				- Gallons of	Approx. Total
45	50	64	39	34	30	. 64	G	<u>H</u>		Fluid	Weight (lbs.)
75 <u> </u>	50	64	39	34	30		69	43	20	110	2,100
12.5	50	64	49	34	30	64	69	43	20	115	2,350
50	50	64	49	34	30	64	69	:_53	20	115	2,500
225	50	64	51	34		64	69	53	20	120	2,700
300	.50	64	51	34	30	64	73	55	20	140	3,250
00	50	81	53	34	30	64	75	55	20	160	3,800
50	64	89	57		30	64	85	. 57	20	200	4.800
000	64	89		42	30	72	93	61	20	255	6,500
500	73	89	86	42	30	<u> </u>	93	63	20	300	7,800
000	73	72	87	42	30	. 72	93	90	24	410	10,300
500	73	72		42	30	72	76	91	24	420	11,600
000	73	84	99	42	30	72	76	103	24	500	14,000
750	84	85	99	46	37	84	88	103	24	720	18,700
000	84		108	47	38	- 85	88	112	24	800	
100	94	96	108	48	48	96	100	112	24	850	20,500
Veights, gallons o		102	122	54	48	102	100	126	24		25,000 46,900

Weights, gallons of fluid, and dimensions are for reference only and not for construction. Please contact Eaton for exact dimensions.

^{*} Add 9* for Bay-O-Net fusing,

^{*} Add 9" for Bay-0-Net fusing.

^{*} Add 9" for Bay-O-Net fusing.