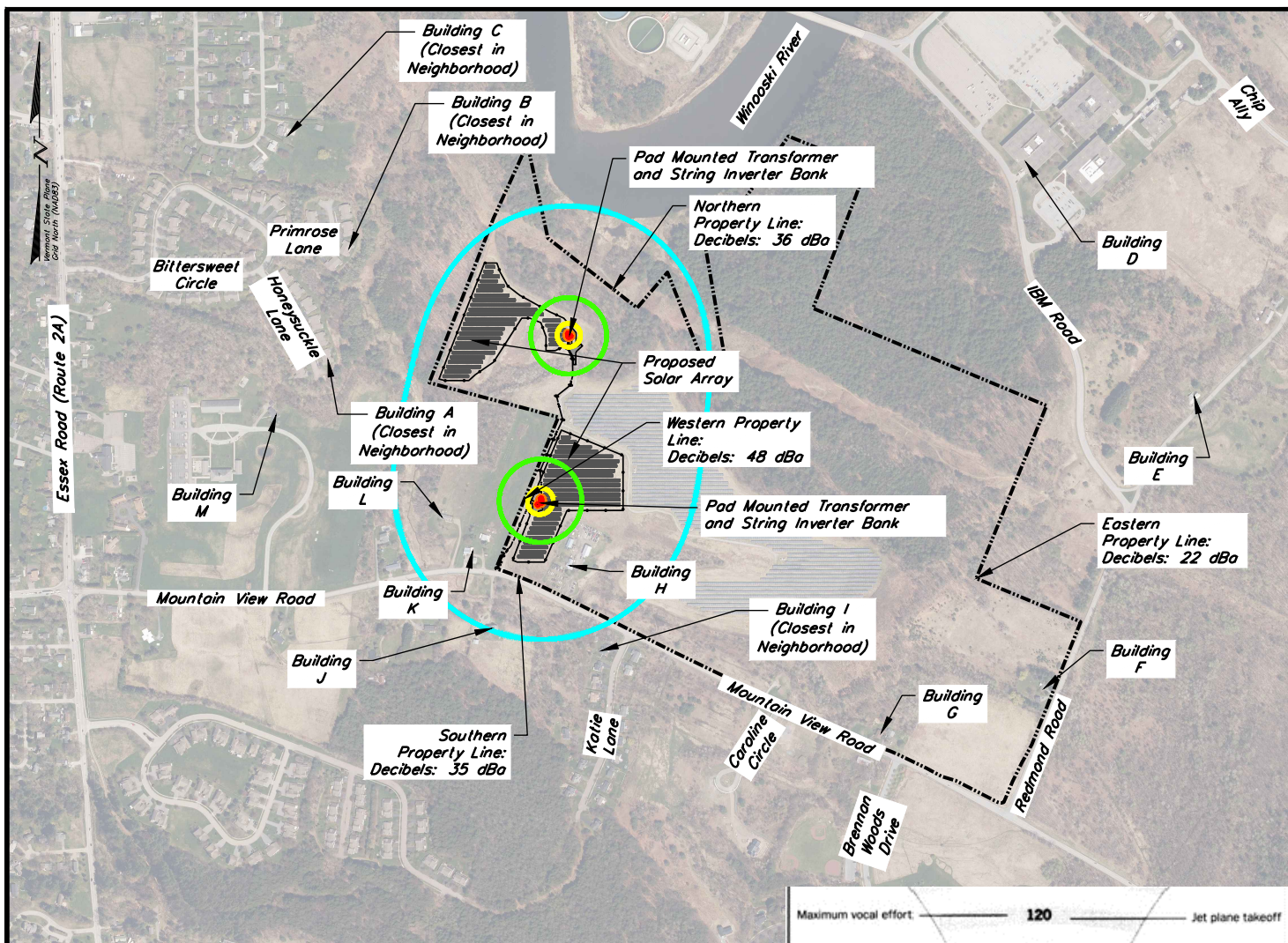
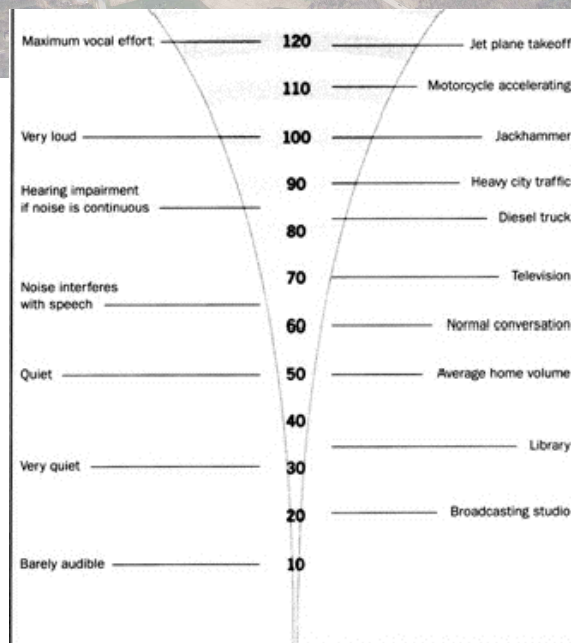
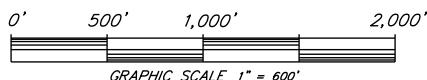
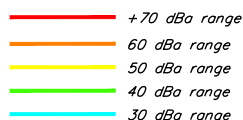




Notes:

1. Chint specifies that the CPS SCH100-125KTL String Inverter creates less than 65 dBA at a distance of 1 meter from the unit, the calculated sound level at 3 meters is 55.5 dBA. Sound levels for the Cooper 1,400 kVA and 1,700 kVA pad mounted transformer have sound levels of 60 dBA, assuming sound at 3 meters to be conservative.
2. Other decibel ranges were derived using the following distance damping equation [$L_2 = L_1 - 20 \cdot \log(d_1/d_2)$]. This damping equation was the only factor considered in decibel range attenuation estimates. Elevation, ambient noise, vegetation, proposed solar array and other structures which would further effect the attenuation of sound levels were not considered in this study. Sound levels depicted are for all (24) Chint CPS SCH100-125KTL string inverters, (1) 1,400 kVA Cooper pad mounted transformer, and (1) 1,700 kVA Cooper pad mounted transformer for the solar array operating simultaneously at maximum noise level. See additional calculation information on Sound 2, Sound 3 and Sound 4.
3. Plans Sound 3 & Sound 4 run the calculations for nighttime operation. Site inverters make negligible noise when not loaded with power. For this calculation we assume they will make no noise. The site transformers do still make noise at night, to be conservative the nighttime calculation models the transformers running at maximum noise.
4. Sound levels reported do not account for any background noise. Local background noise may exceed sound created by project equipment.

Legend:



Decibel Breakdown Compared to Everyday Noises

FULL OPERATION DAYTIME SOUND LEVEL PLAN

Basic Sound Level Estimates for Noise Produced by Project Equipment

DRAWN BY:

GTD

CHECKED BY:

GTD

Project: ER Global Foundries, Project G

Location: Mountain View Road, Williston, VT

Source Data:
Chart found at
www.soundinstitute.com/article_detail.cfm/ID/95

Revision Date:

Plan ID:

Sound 1

Scale:
1" = 1,000'

Date:
07/15/25

ER Global Foundries, Project G - Mountain View Road, Williston, Vermont - DAYTIME

Sound Source #	Easting (feet)	Northing (feet)	Noise Level (dBa @ 3 Meters)
Chint CPS SCH-125-KTL (24)	See Plan	See Plan	55.5
Cooper 1,400 kVA Pad Mounted Trans. (1)	See Plan	See Plan	60.0
Cooper 1,700 kVA Pad Mounted Trans. (1)	See Plan	See Plan	61.0
Formulas used for Calculations			
Adding of Noise Levels			
$L_T = 10 \times \log_{10} (10^{L_1/10} + 10^{L_2/10} + \dots + 10^{L_n/10})$			
Where:			
L_T = Total noise level of all equipment			
L_n = Noise level for each piece of equipment			
Noise Level Changes with Distance			
$L_b = L_a - 20 \times \log_{10} (D_b/D_a)$			
Where:			
L_b = Noise level at new distance			
L_a = Noise level at original distance			
D_b = New distance from source of noise			
D_a = Original distance from source of noise			
Equipment:	1 Meter	3 Meter	
Chint CPS SCH 125 KTL - String Inverters	65.000	55.458	
Cooper 1,400 kVA Pad Mounted Transformer	-	60.000	
Cooper 1,700 kVA Pad Mounted Transformer	-	61.000	
Points of Interest	Easting (feet)	Northing (feet)	Estimated Noise Level Based on Project Components (Sound Pressure, dBa)
Northern Property Line	1,483,622.84	718,606.63	36
Eastern Property Line	1,485,764.10	716,900.33	22
Southern Property Line	1,483,056.83	716,912.49	35
Western Property Line	1,483,099.29	717,378.21	48
Residential Building A	1,481,982.68	718,183.22	27
Residential Building B	1,482,089.28	718,819.61	26
Residential Building C	1,481,700.18	719,503.57	23
Business Building D	1,485,901.19	719,433.67	20
Residential Building E	1,486,986.97	717,941.17	19
Residential Building F	1,486,127.08	716,273.28	20
Residential Building G	1,485,174.48	716,015.87	22
Residential Building H <i>Closest to Project</i>	1,483,358.05	717,030.04	37
Residential Building I	1,483,554.87	716,523.62	29
Residential Building J	1,482,924.84	716,636.33	31
Residential Building K	1,482,801.01	717,086.02	34
Residential Building L	1,482,672.41	717,263.53	34
Residential Building M	1,481,655.83	717,863.15	26

Points of Interest were chosen based on close proximity to the proposed project.



FULL OPERATION DAYTIME
SOUND LEVEL PLAN

Basic Sound Level Estimates for
Noise Produced by Project Equipment

DRAWN BY: GTD

CHECKED BY: GTD

Project: ER Global Foundries, Project G

Location: Mountain View Road, Williston, VT

Source Data:

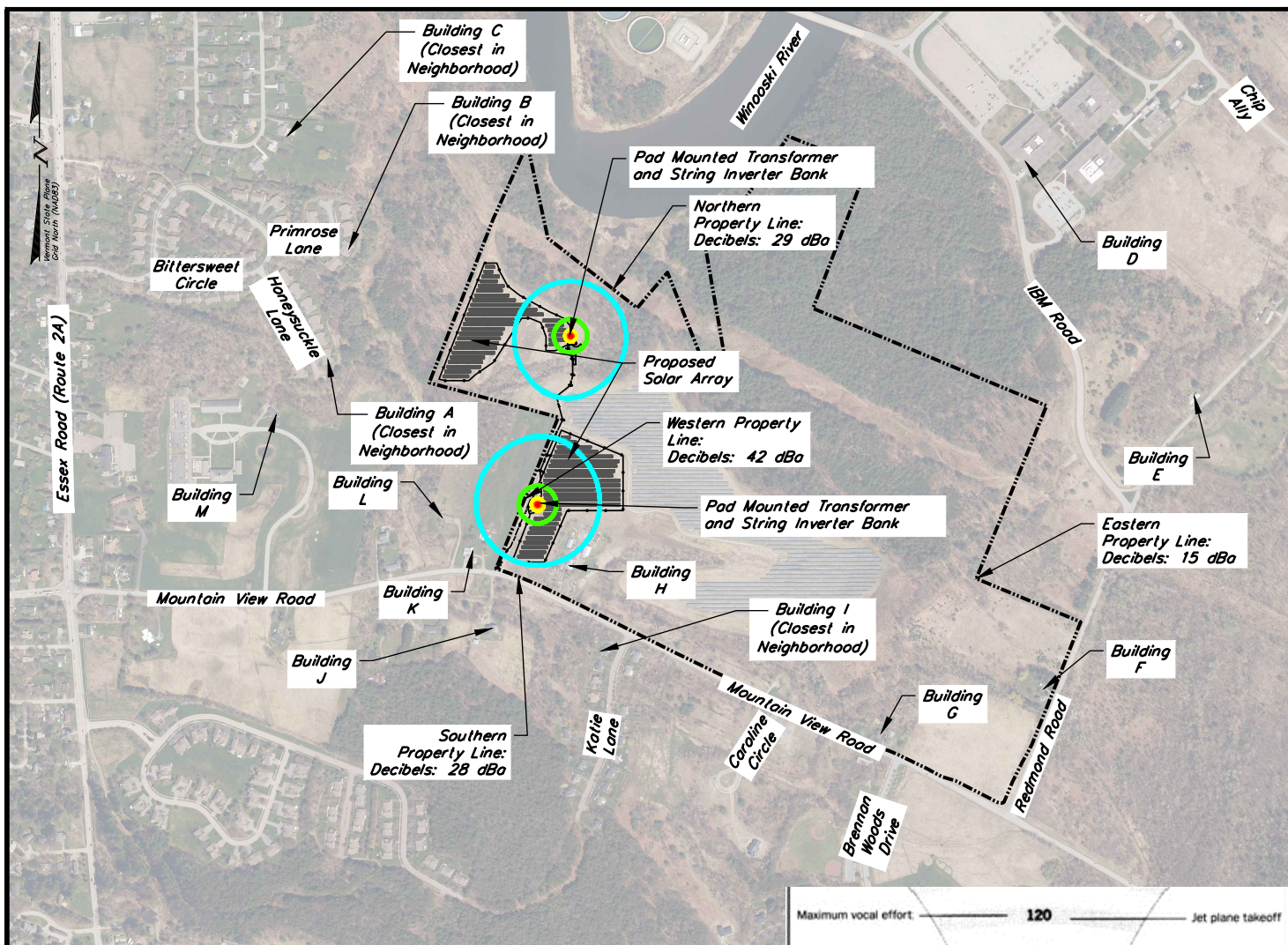
Revision Date: 09/17/25

Plan ID:

Sound 2

Scale:
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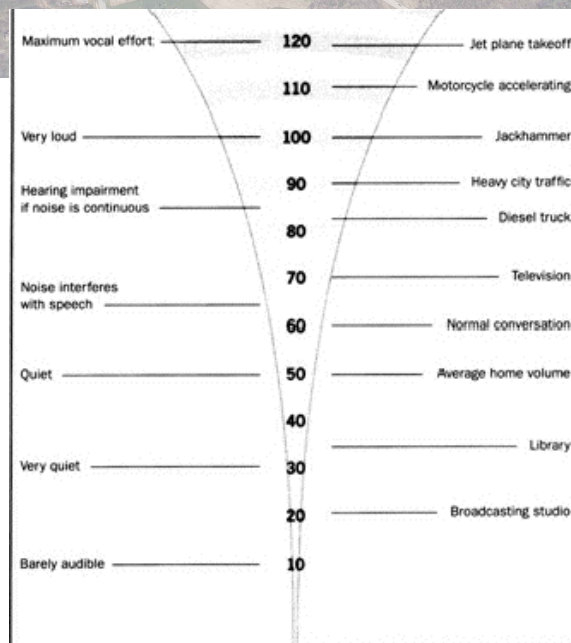
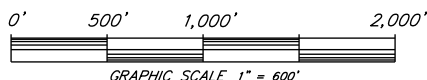
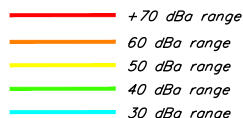
Date:
07/15/25



Notes:

1. Sound levels for the Cooper 1,400 kVA and 1,700 kVA pad mounted transformer have sound levels of 60 dBA, assuming sound at 3 meters to be conservative.
2. Other decibel ranges were derived using the following distance damping equation [$L_2 = L_1 - 20 \log(d_1/d_2)$]. This damping equation was the only factor considered in decibel range attenuation estimates. Elevation, ambient noise, vegetation, proposed solar array and other structures which would further effect the attenuation of sound levels were not considered in this study. Sound levels depicted are for the (1) 1,400 kVA Cooper pad mounted transformer and (1) 1,700 kVA Cooper pad mounted transformer for the solar array operating simultaneously at maximum noise level.
3. Sound levels reported do not account for any background noise. Local background noise may exceed sound created by project equipment.

Legend:



Decibel Breakdown Compared to Everyday Noises

NIGHTTIME OPERATION SOUND LEVEL PLAN

Basic Sound Level Estimates for Noise Produced by Project Equipment

DRAWN BY:

GTD

CHECKED BY:

GTD

Project: ER Global Foundries, Project G

Location: Mountain View Road, Williston, VT

Source Data:

Chart found at
www.soundinstitute.com/article_detail.cfm/ID/95

Revision Date:

Plan ID:

Sound 3

Scale:

1" = 1,000'

Date:

07/15/25

ER Global Foundries, Project G - Mountain View Road, Williston, Vermont - NIGHTTIME

Sound Source #	Easting (feet)	Northing (feet)	Noise Level (dBa @ 3 Meters)
Cooper 1,400 kVA Pad Mounted Trans. (1)	See Plan	See Plan	60.0
Cooper 1,700 kVA Pad Mounted Trans. (1)	See Plan	See Plan	61.0
Formulas used for Calculations			
Adding of Noise Levels			
$L_T = 10 \times \log_{10} (10^{L_{1/10}} + 10^{L_{2/10}} + \dots + 10^{L_{N/10}})$			
Where:			
L _T = Total noise level of all equipment			
L _N = Noise level for each piece of equipment			
Noise Level Changes with Distance			
$L_b = L_a - 20 \times \log_{10} (D_b/D_a)$			
Where:			
L _b = Noise level at new distance			
L _a = Noise level at original distance			
D _b = New distance from source of noise			
D _a = Original distance from source of noise			
Equipment:	1 Meter	3 Meter	
Cooper 1,400 kVA Pad Mounted Transformer	-	60.000	
Cooper 1,700 kVA Pad Mounted Transformer	-	61.000	
Points of Interest	Easting (feet)	Northing (feet)	Estimated Noise Level Based on Project Components (Sound Pressure, dBa)
Northern Property Line	1,483,622.84	718,606.63	29
Eastern Property Line	1,485,764.10	716,900.33	15
Southern Property Line	1,483,056.83	716,912.49	28
Western Property Line	1,483,099.29	717,378.21	42
Residential Building A	1,481,982.68	718,183.22	20
Residential Building B	1,482,089.28	718,819.61	19
Residential Building C	1,481,700.18	719,503.57	16
Business Building D	1,485,901.19	719,433.67	14
Residential Building E	1,486,986.97	717,941.17	12
Residential Building F	1,486,127.08	716,273.28	13
Residential Building G	1,485,174.48	716,015.87	15
Residential Building H <i>Closest to Project</i>	1,483,358.05	717,030.04	30
Residential Building I	1,483,554.87	716,523.62	23
Residential Building J	1,482,924.84	716,636.33	24
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Residential Building L	1,482,672.41	717,263.53	27
Residential Building M	1,481,655.83	717,863.15	19

Points of Interest were chosen based on close proximity to the proposed project.

Site inverters make negligible noise when not loaded with power. For this calculation we assume they will make no noise.



NIGHTTIME OPERATION SOUND LEVEL PLAN		Project: ER Global Foundries, Project G	Plan ID: Sound 4
Basic Sound Level Estimates for Noise Produced by Project Equipment		Location: Mountain View Road, Williston, VT	
DRAWN BY: GTD		Source Data:	Scale: N/A
CHECKED BY: GTD		Revision Date: 09/17/25	Date: 07/15/25

Three-phase pad-mounted PEAK™ transformer



General

Eaton's Cooper Power™ series PEAK™ transformers represent the next generation of transformer design, and with three distinct product offerings there is a PEAK transformer to fit your needs. The first PEAK transformer option is a 75 °C average winding rise (AWR) design that offers users a potentially smaller and lighter footprint than today's 65 °C AWR transformers. This design is ideal for applications with cost, weight, or dimensional constraints. The second PEAK transformer option is a 65/75 °C AWR design that offers users sustained overload capacity while maintaining IEEE Std C57.91™-2011 standard per unit life requirements. This design offers customers flexibility in transformer sizing by offering the ability to accommodate future load growth without oversizing relative to current load, or the ability to meet periods of peak demand without oversizing based on continuous load. The third PEAK transformer option is a 55/75 °C AWR design that provides up to 22% additional loading capacity when compared to traditional mineral oil-filled transformers.

With all PEAK product offerings utilizing thermally upgraded kraft paper and Envirotemp™ FR3™ dielectric fluid, PEAK transformers offer customers a solution that is fully compatible with the new IEEE® standard for transformers using high-temperature insulation systems, IEEE Std C57.154™-2012 standard. In addition, all PEAK transformers provide the high fire point and environmental benefits of Envirotemp™ FR3™ fluid. PEAK transformers are available in various designs and configurations to match almost every application.



Powering Business Worldwide

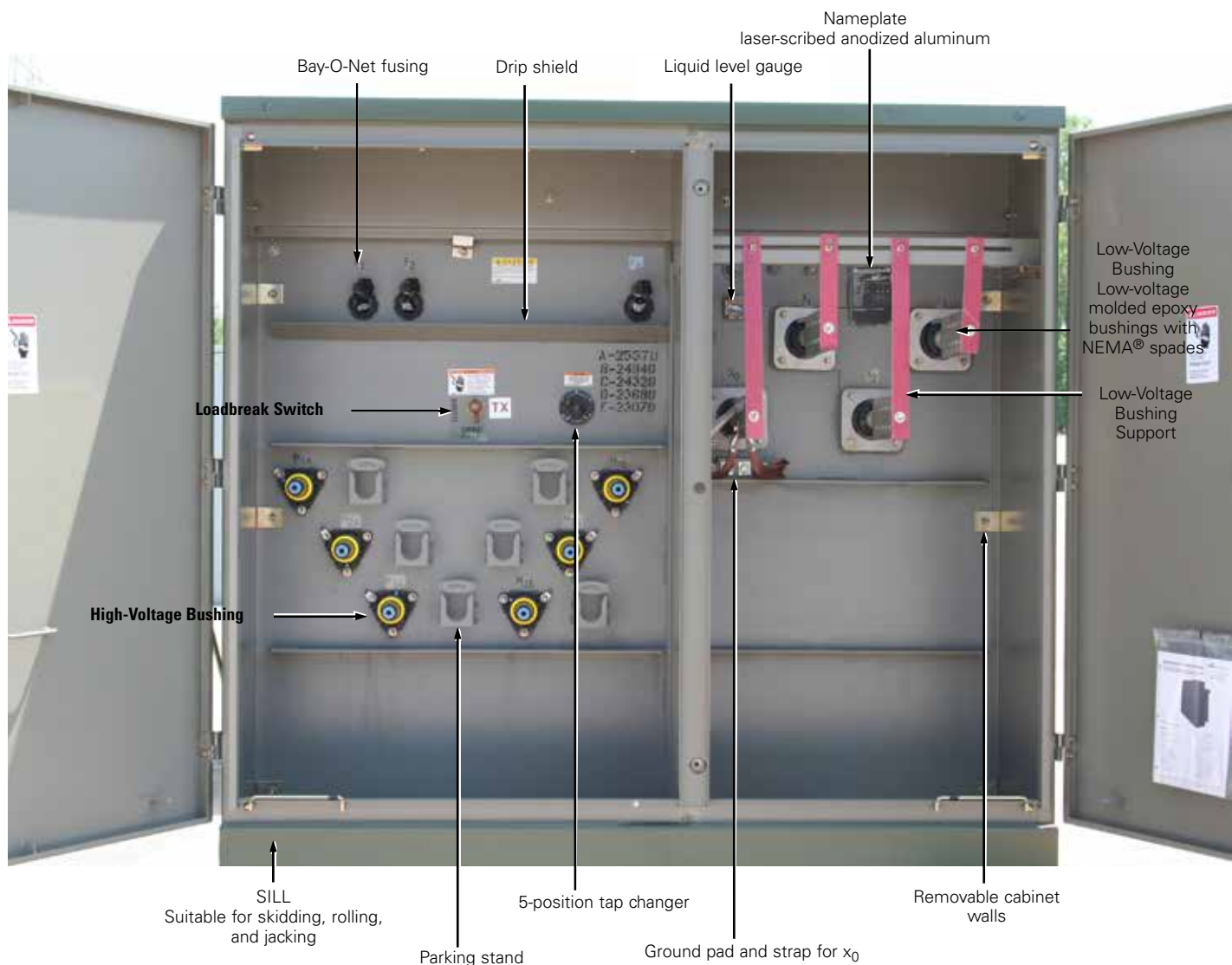


Figure 1. Three-phase pad-mounted PEAK transformer.

Table 1. Product scope

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

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

Rating (kVA)	Low-voltage rating		
	≤ 600 V	2400 Δ through 4800 Δ	6900 Δ through 13800GY/7970 or 13800 Δ
45-75	2.70-5.75	2.70-5.75	2.70-5.75
112.5-300	3.10-5.75	3.10-5.75	3.10-5.75
500	4.35-5.75	4.35-5.75	4.35-5.75
750-2500	5.75	5.75	5.75
3750	5.75	5.75	6.00
5000		6.00	6.50

Note: The standard tolerance is ± 7.5%

Table 4. Audible Sound Levels

Self-Cooled, Two Winding kVA Rating	NEMA® TR-1 Average
	Decibels (dB)
45-500	56
501-700	57
701-1000	58
1001-1500	60
1501-2000	61
2001-2500	62
2501-3000	63
3001-4000	64
4001-5000	65
5001-6000	66
6001-7500	67
7501-10000	68

Table 5. Insulation Test Levels

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

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

	Unit Rating (Temperature Rise Winding)
	75, 65/75, 55/75 °C
Ambient Temperature Max.	40 °C
Ambient Temperature 24 Hour Average	30 °C
Temperature Rise Hotspot	90 °C

100/125 kW, 1500 Vdc String Inverters for North America

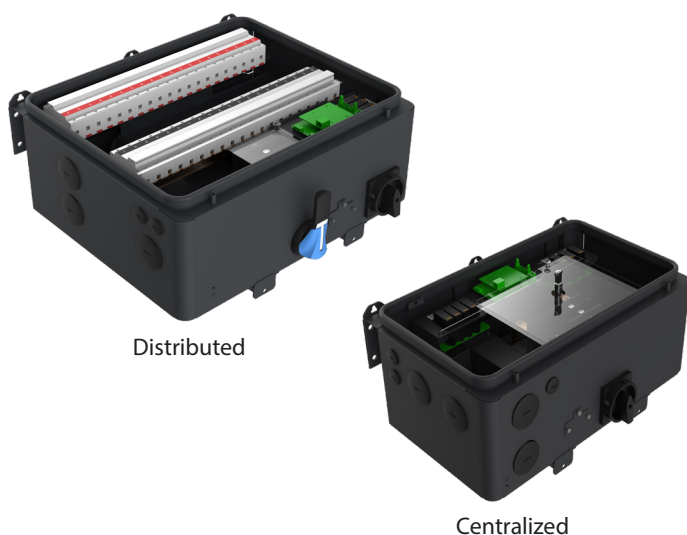


CPS SCH100/125KTL-DO/US-600

The 100 and 125 kW high power CPS three-phase string inverters are designed for ground mount applications. The units are high performance, advanced, and reliable inverters designed specifically for the North American environment and grid. High efficiency at 99.1% peak and 98.5% CEC, wide operating voltages, broad temperature ranges, and a NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The CPS 100/125 kW products ship with the Distributed or Centralized Wire Box, each fully integrated and separable with AC and DC disconnect switches. Enhanced DC Wire Boxes are available to allow DC disconnection under short circuit conditions. The CPS FlexOM Gateway enables communication, controls, and remote product upgrades.

Key Features

- NFPA 70 and NEC compliant
- Touch-safe DC Fuse holders add convenience and safety
- CPS FlexOM Gateway enables remote firmware upgrades
- Integrated AC and DC disconnect switches
- 1 MPPT with 20 fused inputs for maximum flexibility
- Copper- and aluminum-compatible AC connections
- NEMA Type 4X outdoor rated enclosure
- Advanced Smart-Grid features (CA Rule 21 certified)
- kVA headroom yields 100 kW @ 0.9 PF and 125 kW @ 0.95 PF
- Generous 1.87 (100 kW) and 1.5 (125 kW) DC/AC inverter load ratios
- Separable wire box design for fast service
- Enhanced DC wire boxes available



Standard Wire Boxes



Enhanced DC Wire Boxes

Model Name	CPS SCH100KTL-DO/US-600	CPS SCH125KTL-DO/US-600
DC Input		
Max. PV power	187.5 kW	
Max. DC input voltage	1500 V	
Operating DC input voltage range	860-1450 Vdc	
Start-up DC input voltage / power	900 V / 250 W	
Number of MPP trackers	1	
MPPT voltage range ¹	870-1300 Vdc	
Max. PV input current (Isc ×1.25)	275 A	
Number of DC inputs	Distributed Wire Box: 20 PV source circuits, positive and negative fused Centralized Wire Box: 1 input circuit, 1-2 terminations per pole, non-fused	
DC disconnection type	Load-rated DC switch	
DC surge protection	Type II MOV (with indicator/remote signaling)	
AC Output		
Rated AC output power ²	100 kW	125 kW
Max. AC apparent power (selectable)	100 kVA (111 kVA @ PF > 0.9)	125 kVA (132 kVA @ PF > 0.95)
Rated output voltage	600 Vac	
Output voltage range ³	528-660 Vac	
Grid connection type ⁴	3Φ / PE / N (neutral optional)	
Max. AC output current @ 600 Vac	96.2 / 106.8 A	120.3 / 127.0 A
Rated output frequency	60 Hz	
Output frequency range ³	57-63 Hz	
Power factor	>0.99 (±0.8 adjustable)	
Current THD	< 3%	
Max. fault current contribution (1 cycle RMS)	41.47 A	
Max. OCPD rating	200 A	
AC disconnection type	Load-rated AC switch	
AC surge protection	Type II MOV (with indicator/remote signaling)	
System		
Topology	Transformerless	
Max. efficiency	99.1%	
CEC efficiency	98.5%	
Standby / night consumption	< 4 W	
Environment		
Enclosure protection degree	NEMA Type 4X	
Cooling method	Variable speed cooling fans	
Operating temperature range ²	-22°F to 140°F / -30°C to 60°C	
Non-operating temperature range ⁵	-40°F to 158°F / -40°C to 70°C	
Operating humidity	0-100%	
Operating altitude	8202 ft / 2500 m (no derating)	
Audible noise	< 65 dBA @ 1 m and 77°F (25°C)	
Display and Communication		
User interface and display	LED indicators, Wi-Fi and app	
Inverter monitoring	Modbus RS485	
Site-level monitoring	CPS FlexOM Gateway (1 per 32 inverters)	
Modbus data mapping	SunSpec / CPS	
Remote diagnostics / firmware upgrade functions	Standard / (with FlexOM Gateway)	
Mechanical		
Dimensions (W × H × D)	Distributed Wire Box: 45.28 × 24.25 × 9.84 in (1150 × 616 × 250 mm) Centralized Wire Box: 39.37 × 24.25 × 9.84 in (1000 × 616 × 250 mm)	
Weight	Inverter: 121 lbs (55 kg) Distributed Wire Box: 55 lbs (25 kg) Centralized Wire Box: 33 lbs (15 kg)	
Mounting / installation angle	15-90 degrees from horizontal (vertical or angled)	
AC termination	M10 stud type terminal [3Φ] (wire range: 1/0 AWG-500 kcmil CU/AL; lugs not supplied) Screw clamp terminal block [N] (#12-1/0 AWG CU/AL)	
DC termination	Distributed Wire Box: Screw clamp fuse holder (wire range: #12-#6 AWG CU) Centralized Wire Box: Busbar, M10 bolts (wire range: #1 AWG-500 kcmil CU/AL [1 termination per pole], #1 AWG-300 kcmil CU/AL [2 terminations per pole]; lugs not supplied)	
Fused string inputs	Standard/Distributed Wire Boxes: 25 A fuses provided (fuse values up to 30 A acceptable) Enhanced DC Wire Boxes: 20 A fuses provided (fuse values up to 30 A acceptable)	
Safety		
Certifications and standards	UL 1741-SA/SB Ed. 3, CSA-C22.2 NO.107.1-01, IEEE 1547-2018, FCC PART15	
Selectable grid standard	IEEE 1547a-2014, IEEE 1547-2018 ⁶ , CA Rule 21, ISO-NE	
Smart-grid features	Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAR, Freq-Watt, Vol-Watt	
Warranty		
Standard	5 years	
Extended terms	10, 15, and 20 years	

1) See user manual for further information regarding MPPT voltage range when operating at non-unity PF.

2) 100 kW active power derating begins at 113°F (45°C) when MPPT ≥ Vmin; 125 kW active power derating begins at 107.6°F (42°C) when PF = ±0.95 and MPPT ≥ Vmin, and at 113°F (45°C) when PF=1 and MPPT ≥ Vmin.

3) The "output voltage range" and "output frequency range" may differ according to the specific grid standard.

4) Delta configurations must not be corner-grounded.

5) See user manual for further requirements regarding non-operating conditions.

6) Firmware version 12.0 or later required.