

APPENDIX A: GLOSSARY OF NOISE TERMINOLOGY

Ambient or Background Noise: The ambient noise from all sources other than the sound of interest (i.e. sound other than that being measured). Under most MOE guidelines, aircraft overflights and train noise, due to their transient nature, are normally excluded from measurements of background noise.

Attenuation: The reduction of sound intensity by various means (e.g., air, humidity, porous materials, etc.).

dB - **Decibel:** The logarithmic units associated with sound pressure level, sound power level, or acceleration level. See sound pressure level, for example.

dBA - **Decibel, A-Weighted:** The logarithmic units associated with a sound pressure level, where the sound pressure signal has been filtered using a frequency weighting that mimics the response of the human ear to quiet sound levels. The resultant sound pressure level is therefore representative of the subjective response of the human ear. A-weighted sound pressure levels are denoted by the suffix 'A' (ie. dBA), and the term pressure is normally omitted from the description (i.e., sound level or noise level).



dBC - **Decibel, C-Weighted:** The logarithmic units associated with a sound pressure level, where the sound pressure signal has been filtered using a frequency weighting that mimics the response of the human ear to loud sound levels. C-weighted sound pressure levels are denoted by the suffix 'C' (ie. dBC). C-weighted levels are often used in low-frequency noise analysis, as the filtering effect is nearly flat at lower frequencies.

dBL or dBLin - Decibel, Linear: The logarithmic units associated with a sound pressure level, where the sound pressure signal is unfiltered, and represents the full spectrum of incoming noise.

Calibrator (Acoustical): A device which produces a known sound pressure on the microphone of a sound level measurement system, and is used to adjust the system to standard specifications.



Directivity Factor (Q) (also, **Directional** or **Directionality Factor):** A factor mathematically related to Directivity Index, used in calculating propagated sound levels to account for the effect of reflecting surfaces near to the source. For example, for a source in free space where the sound is radiating spherically, Q = 1. For a source located on or very near to a surface (such as the ground, a wall, rooftop, etc.), where the sound is radiating hemispherically, Q = 2. This accounts for the additional sound energy reflecting off the surface, and translates into a +3 dB add.

Energy Equivalent Sound Level (L_{eq}): An energy-average sound level taken over a specified period of time. It represents the average sound pressure encountered for the period. The time period is often added as a suffix to the label (e.g., $L_{eq}(24)$ for the 24-hour equivalent sound level). L_{eq} is usually A-weighted. An L_{eq} value expressed in dBA is a good, single value descriptor of the annoyance of noise.

Exceedance Noise Level (L_N): The noise level exceeded N% of the time. It is a statistical measure of the noise level. For highly varying sounds, the L₉₀ represents the background noise level, L₅₀ represents the median or typical noise level, and L₁₀ represents the short term peak noise levels, such as those due to occasional traffic or a barking dog.

Far Field: Describes a region in free space where the sound pressure level from a source obeys the inverse-square law (the sound pressure level decreases 6 dB with each doubling of distance from the source). Also, in this region the sound particle velocity is in phase with the sound pressure. Closer to the source where these two conditions do not hold constitutes the "near field" region.

Free Sound Field (Free Field): A sound field in which the effects of obstacles or boundaries on sound propagated in that field are negligible.

Frequency: The number of times per second that the sine wave of sound or of a vibrating object repeats itself, now expressed in hertz (Hz), formerly in cycles per second (cps).

Hertz (Hz): Unit of measurement of frequency, numerically equal to cycles per second.

Human Perception of Sound: The human perception of noise impact is an important consideration in qualifying the noise effects caused by projects. The following table presents a general guideline.

Increase in Noise Level (dB)	Perception	
3 or less	insignificant due to imperceptibility	
4 to 5	just-noticeable difference	
6 to 9	marginally significant	
10 or more	significant, perceived as a doubling of sound exposure	



Impact Sound: The sound produced by the collision of two solid objects, e.g., footsteps, dropped objects, etc., on an interior surface (wall, floor, or ceiling) of a building. Typical industrial sources include punch presses, forging hammers, etc.

Impulsive Noise: a) Single or multiple sound pressure peak(s) (with either a rise time less than 200 milliseconds or total duration less than 200 milliseconds) spaced at least by 500 millisecond pauses, b) A sharp sound pressure peak occurring in a short interval of time.

Infrasonic: Sounds of a frequency lower than 20 hertz.

Insertion Loss (IL): The arithmetic difference between the sound level from a source before and after the installation of a noise mitigation measure, at the same location. Insertion loss is typically presented as a positive number, i.e., the post-mitigation sound level is lower than the pre-mitigation level. Insertion loss is expressed in dB and is usually specified per 1/1 octave band, per 1/3 octave band, or overall.

Low Frequency Noise (LFN): Noise in the low frequency range, from infrasonic sounds (<20 Hz) up to 250 Hz.

Masking: a) The process by which the threshold of audibility for a sound is raised by the presence of another (masking) sound, or b) The amount by which the threshold of audibility of a sound is raised by the presence of another (masking) sound.

Near Field: The sound field very near to a source, where sound pressure does not obey the inverse-square law and the particle velocity is not in phase with the sound pressure.

Noise: Unwanted sound.

Noise Level: Same as Sound Level, except applied to unwanted sounds.

Peak Sound Pressure Level: Same as Sound Pressure Level except that peak (not peak-to-peak) sound pressure values are used in place of RMS pressures.

Quasi-Steady Impulsive Noise: Noise composed of a series of short, discrete events, characterized by rapid rise times, but with less than 0.5 seconds elapsing between events.

RMS Sound Pressure: The square-root of the mean-squared pressure of a sound (usually the result of an RMS detector on a microphone signal).

Reverberant Field: The region in a room where the reflected sound dominates, as opposed to the region close to the noise source where the direct sound dominates.

Sound: a dynamic (fluctuating) pressure.

Sound Exposure Level (SEL): An L_{eq} referenced to a one second duration. Also known as the Single Event Level. It is a measure of the cumulative noise exposure for a single event. It provides a measure of the accumulation of sound energy over the duration of the event.



Sound Intensity: The sound energy flow through a unit area in a unit time.

Sound Level Meter: An instrument comprised of a microphone, amplifier, output meter, and frequency-weighting networks which is used for the measurement of noise and sound levels.

Sound Pressure Level (SPL): The logarithmic ratio of the RMS sound pressure to the sound pressure at the threshold of hearing. The sound pressure level is defined by equation (1) where P is the RMS pressure due to a sound and P_0 is the reference pressure. P_0 is usually taken as 2.0×10^{-5} Pascals.

(1) SPL (dB) = $20 \log(P_{RMS}/P_0)$

Sound Power Level (PWL): The logarithmic ratio of the instantaneous sound power (energy) of a noise source to that of an international standard reference power. The sound power level is defined by equation (2) where W is the sound power of the source in watts, and W_0 is the reference power of 10^{-12} watts.

(2) PWL (dB) = $10 \log(W/W_0)$

Interrelationships between sound pressure level (SPL) and sound power level (PWL) depend on the location and type of source.

Spectrum: The description of a sound wave's resolution into its components of frequency and amplitude.

Speed (Velocity) of Sound in Air: 344 m/s (1128 ft/s) at 70 °F (21 °C) in air at sea level.

Threshold of Audibility (Threshold of Detectability): The minimum sound pressure level at which a person can hear a specified frequency of sound over a specified number of trials.

Kingston Solar LP Sol-luce Kingston Solar PV Energy Project Draft Noise Study Report Document No. 168335-0002-160-RPT-0014 July 2012



APPENDIX B

LAND-USE ZONING MAPS

TC111406

Loyalist Township Official Plan - Schedule A Land Use Plan









Resort Commercial



Open Space

Urban Area

November 8th, 2010 Consolidation OPA #20







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APPENDIX C

PROJECT LAYOUT AND DRAWINGS





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APPENDIX D

MANUFACTURER'S SPECIFICATIONS



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November 21, 2011

Janos Rajda, P. Eng. SMA Solar Technology Canada, Inc.

Via email: <Janos.Rajda@SMA-America.com>

Re: Sound Level Predictions for Inverter Enclosure with Two SC500HE-US Power Inverter Units

Dear Janos,

HGC Engineering was retained by SMA Solar Technology Canada ("SMA") to determine sound levels emitted by an electrical inverter enclosure (SMA type MV-PP-US-04:ZD22111) containing two SC500HE-US inverter units. The sound level predictions were conducted for a mitigated and unmitigated enclosure configuration, and were based on sound data for an SC500HE-US inverter unit and engineering drawings provided by SMA.

For the unmitigated enclosure configuration, the wall and roof assemblies were understood to be sandwich panels consisting of 18 gauge solid steel sheets separated by a 3 inch deep cavity filled with fibreglass insulation.

The mitigated configuration was assumed to include perforated steel on the inner side of the wall sandwich panel, instead of solid steel material. Additionally, each inverter air exhaust was assumed to be equipped with a rectangular and acoustically lined duct. A pair of lined ducts was assumed to be attached vertically on the outside of the enclosure wall, each connected to an inverter air exhaust located approximately 0.4 metres above grade. The air would then exhaust in the horizontal direction through a louver at the top of the duct, located at the roof level, approximately 2 metres above the original exhaust opening. The width and the height of the duct were assumed to be 1150 mm and 200 mm, respectively. The acoustical lining inside the ducts was assumed to be 25 mm thick.

Using the established engineering prediction methods, sound levels were predicted of the inverter exhaust fans, the louvered air intake in the door, as well as sound emanating through the walls and roof assemblies. Total sound power levels of these sources are expressed for both the mitigated and unmitigated configurations in the table below as linear weighted octave band spectrums and A-weighted overall sound power levels.

November 21, 2011

Table 1: Estimated Sound Power Level – Enclosure With Two SC500HE-US Inverter Units (dB)

				()					
Octave Band Centre		a series and	and monthly in					and a start of the	Overall A-
Frequency (Hz)	63	125	250	500	1000	2000	4000	8000	weighted
Unmitigated	107	95	93	87	78	70	61	68	89
Mitigated	102	87	80	69	60	52	43	50	79

Please note that the sound data provided by the manufacturer appears to be approximate, in that the measurements were not conducted in full accordance with any of the widely accepted test standards (e.g. ISO 3744) and there were a number of minor inconsistencies in the quoted levels. Since the calculations of the enclosure sound power level are based on the data from the inverter manufacturer, any uncertainties in that data will affect the calculated outdoor sound levels commensurately.

Trusting this is satisfactory, do not hesitate to contact the undersigned, if you have any questions.

Yours truly, Howe Gastmeier Chapnik Limited Petr Chocensk, PhD, (Civ.Eng.)



www.hgcengineering.com

MV POWER PLATFORM 1.0 / 1.25 / 1.4 / 1.5 / 1.6 MW





Turnkey

- Modular power solution allows for rapid field deployment
- Conversion, distribution and control functions included
- Customizable service options

Innovative

- Based on award-winning SMA Sunny Central technology
- Leading grid management
- functions available

Secure

- Renowned SMA manufacturing standards ensure long term operation
- Diverse service options address project-specific needs

Flexible

- Available as an open platform, with a canopy shade or as a full steel enclosure
- Can be installed on a concrete slab, piers or vault

MV POWER PLATFORM 1.0 / 1.25 / 1.4 / 1.5 / 1.6 MW

Modular utility-scale power solution

The SMA MV Power Platform–available as an open, shaded or enclosed structure–provides the most cost-effective way to modularly install large-scale PV power converters. These 1.0-1.6 megawatt medium-voltage turnkey power solutions include two Sunny Central inverters; a medium-voltage transformer; optional DC or AC/DC disconnect cabinets; and a control and supply panel for power distribution to local loads and (optionally) field tracker motors. They also feature easy integration with installer SCADA equipment; a modular, steel base with all component interconnection cabling; and a convenient plug-and-play installation scheme. Designed for Seismic Zone D applications, all configurations can be deployed for temperatures down to -40 °C. Each configuration can also be installed on a concrete slab, vault or piers for maximum flexibility.

		SAMPLE CON	IGURATIONS		
Technical data	MVPP 1.0 MW		MVPP 1.5 MW	MVPP 1.6 MW	
Technical data	600 V DC	1000 V DC	1000 V DC	1000 V DC	
Input (DC)					
Max. DC power	1013 kW	1120 kW	1796 kW	1796 kW	
MPP voltage range (@77°F/122°F at 60Hz)	330 V 600 V / 330 V 600 V a)	449 V 820 V / 436 V 820 V aj	609 V 820 V / 554 V 820 V a	641 V 820 V / 583 V 820 V a	
Rated input voltage	380 V	480 V	595 V	620 V	
Max. DC voltage	600 V	1000V / 1100 V b)	1000V / 1100 V b)	1000V / 1100 V b)	
Max. DC input current	3200 A	2500 A	2800 A	2800 A	
Number of independent MPP inputs	2	2	2	2	
Number of fused DC inputs	18	18 / 64 (Optiprotect)	18 / 64 (Optiprotect)	18 / 64 (Optiprotect)	
Output (AC)					
Nominal AC power	1000 kVA @113 °F	1000 kVA @122 °F	1500 kVA @122 °F	1600 kVA @122 °F	
Maximum AC power	1000 kVA @113 °F	1100 kVA @77 °F	1650 kVA @77 °F	1760 kVA @77 °F	
Nominal AC voltage options	12.47 kV; 13.8 kV; 20.6 kV; 24.9 kV; 27.6 kV; 34.5 kV	12.47 kV; 13.8 kV; 20.6 kV; 24.9 kV; 27.6 kV; 34.5 kV	12.47 kV; 13.8 kV; 20.6 kV; 24.9 kV; 27.6 kV; 34.5 kV	12.47 kV; 13.8 kV; 20.6 kV; 24.9 kV; 27.6 kV; 34.5 kV	
Total Harmonic Distortion of grid current	< 3 % @ nominal power				
Grid frequency	60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz	
Power factor (adjustable)	0.90 _{lead} - 0.90 _{lag}				
Transformer vector group	Dy1y1	Dylyl	Dy1y1	Dylyl	
Transformer no load taps	±2.5 % & ±5.0 %	±2.5 % & ±5.0 %	±2.5 % & ±5.0 %	-5.0 %; -2.5 %; +3.5 %; +7.0 %; +10.5 %; +14.0 % c)	
Transformer cooling type	KNAN	KNAN	KNAN	KNAN	
Power consumption					
Internal consumption in operation (inverter + MV-transformer)	< 3400 VA + < 12 kVA	< 3000 VA + < 12 kVA	< 3000 VA + < 19.2 kVA	< 3000 VA + < 19.2 kVA	
Standby consumption (inverter + MV-transformer)	< 220 VA + < 1500 VA	< 200 VA + < 1500VA	< 200 VA + < 2200 VA	< 200 VA + < 2200 VA	
Supply via internal PV power /external power supply / green power	0/0/●	0/0/●	0/0/●	0/0/●	
External auxiliary supply voltage	208 V; 480 V; 600 V				
Efficiency					
Max. efficiency / European efficiency / CEC efficiency inverter	98.60% / 97.90% / 98.00%	98.60% / 98.40% / 98.50%	98.60% / 98.40% / 98.50%	98.60% / 98.40% / 98.50%	
Max. efficiency / European efficiency / CEC efficiency transformer	TBD / TBD / TBD				

OPEN CONFIGURATION





	SAMPLE CONFIGURATIONS				
* 1 * 11.	MVPP	1.0 MW	MVPP 1.5 MW	MVPP 1.6 MW	
Technical data	600 V DC	1000 V DC	1000 V DC	1000 V DC	
Protection rating and ambient conditions					
Protection rating	NEMA 3R	NEMA 3R	NEMA 3R	NEMA 3R	
Operation temperature range @ nominal power	-13 °F +113 °F	-4°F+122°F	-4°F +122°F	-4°F+122°F	
Storage temperature standard / low temperature option	-13°F +140°F / -40°F +140°F	-4°F +140°F / -40°F +140°F	-4°F +140°F / -40°F +140°F	-4°F +140°F / -40°F +140°F	
Relative humidity	15 % 95 %	15 % 95 %	15 % 95 %	15 % 95 %	
Snow load (psf)	>40	>40	>40	>40	
Wind load (mph)	>110	>110	>110	>110	
Fresh air consumption (CFM)	3531.6	3531.6	3531.6	3531.6	
Max. altitude above sea level (m)	2000	2000	2000	2000	
Design lifetime (years)	>20	>20	>20	>20	
Compliance and certificates					
Seismic rating according UBC sec. 1632 and IBC sec. 1613 $^{\rm d}$	Site class D, Ss =2.0g, S1=1.0g				
NEC 2011 / OSHA 1910	• / •	• / •	• / •	• / •	
PE certificate on mechanical, electrical, seismic for California / other state	• / 0	• / 0	• / 0	• / 0	
Features					
Disconnect Unit	0	0	0	0	
AC circuit breakers located in inverter / Disconnect Unit	• / 0	• / 0	•/0	•/0	
Project specific power supply for tracker motors etc.	0	0	0	0	
Auxiliary power fusible disconnect switch / overvoltage protection	• / 0	• / 0	• / 0	• / 0	
Customer SCADA system compartment e)	34" x 30" x 12", Supply: 120V/60Hz/max 250W				
On platform	2x 120V/ max. 250W each				
Transformer alarm contacts: Thermo / Pressure / Fluid level	•/0/0	•/0/0	•/0/0	•/0/0	
Transformer oil containment	0	0	0	0	
Delivery FCA/on site	• / 0	• / 0	• / 0	• / 0	

CANOPY CONFIGURATION





	SAMPLE CONFIGURATIONS			
Tashuisal data	MVPP	1.0 MW	MVPP 1.5 MW	MVPP 1.6 MW
Technical data	600 V DC	1000 V DC	1000 V DC	1000 V DC
Platform design				
Open including Disconnect Units				
Width / Height / Depth	29′ / 8′9″ / 12′	29' / 8'9" / 12'	29′ / 8′9″ / 12′	29′ / 8′9″ / 12′
Weight (lb)	<39,000	<39,000	<39,000	<39,000
Open excluding Disconnect Units				
Width / Height / Depth	24' / 8'9" / 12'	24' / 8'9" / 12'	24' / 8'9" / 12'	24' / 8'9" / 12'
Weight (lb)	<34,000	<34,000	<34,000	<34,000
Canopy including Disconnect Units				
Width / Height / Depth (roof)	31′ / 10′6″ / 14′	31' / 10'6" / 14'	31' / 10'6" / 14'	31′ / 10′6″ / 14′
Weight (lb)	<42,000	<42,000	<42,000	<42,000
Canopy excluding Disconnect Units				
Width / Height / Depth (roof)	26' / 10'6" / 14'	26' / 10'6" / 14'	26' / 10'6" / 14'	26' / 10'6" / 14'
Weight (lb)	<37,000	<37,000	<37,000	<37,000
Enclosure including Disconnect Units				
Width / Height / Depth	32′ / 10′6″ / 12′	32' / 10'6" / 12'	32' / 10'6" / 12'	32′ / 10′6″ / 12′
Weight (lb)	<48,000	<48,000	<48,000	<48,000
Enclosure excluding Disconnect Units				
Width / Height / Depth	27' / 10'6" / 12'	27' / 10'6" / 12'	27' / 10'6" / 12'	27' / 10'6" / 12'
Weight (lb)	<43,000	<43,000	<43,000	<43,000
• Standard features O Optional features - Not available	9			
Type designation	MV-1000HE-US	MV-1000CP-10	MV-1500CP-10	MV-1600CP-10

a) @ 1.05 U_{ACnom} and cos ϕ = 1 b) Standard: 1000 V DC, optional 1100 V DC with a start-up < 1000 V DC

c) Reduction from 1600 kVA to 1400 kVA in 40 kVA steps possible to balance module degradation

d) Pier height 3 ft max., mounting via wedge anchors included in delivery e) Suitable to -13 °F ... +140 °F, has to include buffer module

ENCLOSED CONFIGURATION





SMART GRID MANAGEMENT INCLUDED

SMA inverters in the MV Power Platform can fulfill the following grid management specifications with:



grid voltage losses. Using the monitored dynamic grid support, SMA inverters can feed in immediately after short-term voltage losses—as long as the nominal voltage exceeds fixed values.





SERVICE FOR POWER PLANT SOLUTIONS

With a PV plant's expected service life exceeding 20 years, careful consideration must be given to not just the technologies used but also the reliability and durability of a system's components. Likewise, a comprehensive plan must be in place for the maintenance and operation of the plant. SMA Service for PV power plants addresses these needs and ensures optimum inverter availability-providing integrators, investors and utilities with the greatest security possible.

SMA also understands that every PV power plant is different and requirements vary. That's why we developed a modular service approach specifically designed for large power plants. This allows our customers to define individual service packages that best meet their needs. Approaching 100 service locations worldwide, SMA Service guarantees outstanding local customer support through a variety of customizable packages.



Maintenance

To optimize system performance, SMA performs controls, cleaning and parts replacement at regular intervals. This preventative maintenance is important for long term operation.



Spare parts warranty

Whether electronic or mechanical, we guarantee the availability of all components over the duration of the complete system life cycle. Our customers can be confident that even as technologies evolve, SMA's support will be constant. This guarantee also provides additional cost security for the operational life of the inverter solution.



Diagnostics and repair

Beginning with remote service, which often eliminates on-site assistance, to First Level, (diagnostics and small repairs), or Second Level Support, (comprehensive repairs), SMA offers the proper service plan for our customers' needs. Customers can optionally administer First Level Support themselves. With local staff to assist, SMA Service quickly provides the appropriate response to any situation.



Inverter availability

SMA inverters lead the industry. Our customers know our world-class manufacturing and high-quality components result in a superior solution. To fully protect investment security, SMA offers two inverter uptime guarantees: 98 or 99 percent. With these guarantees, we will reimburse the customer for the difference between the actual and agreed-upon inverter uptime. With warranty periods up to 25 years in length, SMA can also guarantee our solution's performance for the life of the PV plant.

Need more information? Call SMA Power Plant Solutions at +1 888 476 2872 to hear more.



Enclosure MV Power Platform including Disconnect Units



1.1.2 Compliance Standards

S tandard	Name	Index			
ANSI/ IEEE	American National Standards Insti- tute / Institute of Electrical and Elec- tronics Engineers	ANSI A117.1, 2009 Edition : Accessible and Usable Buildings and Facilities			
ASCE	American Society of Civil Engineers	ASCE/SEI 7-05			
		 ASTM A36/A36M - Standard Specifica- tion for Carbon Structural Steel ASTM A90IA90M - Standard Test Me- thod for Waight (March of Capilian and 			
		Iron and Steel Articles with Zinc or Zinc- Alloy Coatings			
		- ASTM A525 - Standard Specifications for General Requirements for Steel			
		Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process			
		- ASTM B 117 - Standard Practice for Operating Salt Spray (Fog) Testing			
ASTM	American Society for Testing and Materials	Apparatus			
		- ASTM D714 - Standard Test Method for Evaluating Degree of Blistering of			
		Paints - ASTM D 1654 - Method for Evaluation of Painted or Conted Specimens			
		Subjected to Corrosive Environments			
		- ASTM D2244 - Standard Practice for Calculation of Color Tolerances and			
		Color Differences from Instrumentally Measured Color Coordinates			
		 ASTM E 84-04 - Standard Test Method for Surface Burning Characteristics of Building Materials National Fire Protec- tion Association (NEPA) 			
AWS	American Welding Society	ANSI/AWS 2009			
		International Buildina Code (IBC), 2009			
IRC	International Building Code	Edition			
IEC	International Electrotechnical Com- mission	IEC 2000			
ISA	Instrumentation Society of America	ISA Documentation Standards and User Resources for Industrial Automation and Control Systems, 2nd Edition			
NEC	National Electrical Code	2008 and 2011			
NEMA	National Electrical Manufacturers Association	NEMA Standards Publication 250-1997			
NESC	National Electrical Safety Code	NESC 2007			
NETA	National Electrical Testing Associa- tion	ANSI/NETA ATS-2009			
		- NFPA 70 - National Electrical Code (NEC)			
NFPA		 NFPA 70E - Standard for Electrical Safety in the Workplace 			
		- NFP A 101 - Life Safety Code			
	National Fire Protection Association	- NTPA 255 - Standard Method of Test of Surface Burning Characteristics of			
		Building Materials			
		- INITY A 490 - Standard for Purged and Pressurized Enclosures for Electrical			
	Occupational Sofety and Hardt	Cquipment			
OSHA	Administration	OSHA 1910			
UL	Underwriters Laboratories	UL 2009			
UMC	Uniform Mechanical Code	2009 Uniform Mechanical Code			

1.2 Mechanics

Overall dimensions:





1.2.1 itional Enclosure platform mechanics With Disconnect Units:

Without Disconnect Units:

1.3 Transportation and Installation

1.3.1 Transport:

- MV Power platform is delivered ex works including loading
- Optional delivery to site possible
- (...text from installation requirements that has already been set up)

Truck has to be a Double Droop Trailer (low boy) suitable to carry the weight and dimensions (especially width and height) of the MV Power Platform.

Unloading:

- 6 lifting lugs are included upon delivery which have to be assembled to the frame prior to unloading procedure
- The customer has to organize an appropriate crane to lift the MV Power Platform. Please contact a crane supplier to identify the required crane properties.
- Lifting to be done as shown in the drawings below

