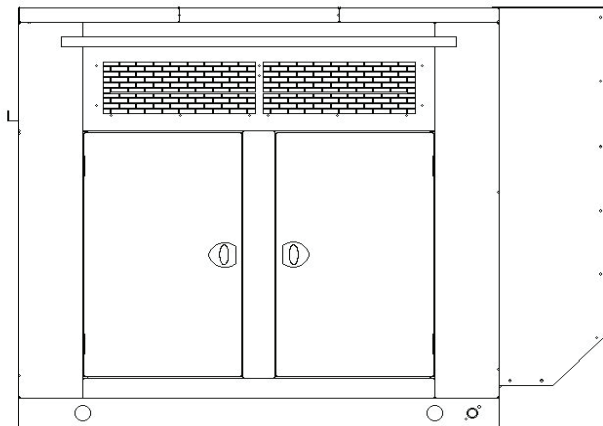


NPWAS150ST

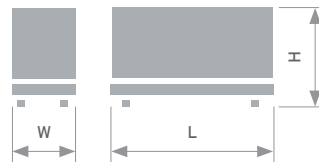


Measures:

L: 3251 mm H: 2184 mm
W: 1321 mm

Weight (dry):

5390 lbs / 2445 kg



60Hz



N/G



Water cooled



Soundproofed



1800



CSA Approved
or Equivalent

1 Genset General Description

➤ Soundproof generator sets equipped with controllers to protect equipment and allow for manual or auto start up signals.

General Technical Data			
Engine	PSI 8.8LT CAC-NG		
Alternators	240/120V	Wdg.	STAMFORD UCI274F-w06
		·06	
	208/120V	Wdg.	STAMFORD UCI274G
		311	
	600/347V	Wdg.	STAMFORD UCI274F
		17	
Performance Class	N/A		
Frequency	60Hz		
Control Panel	240/120V		DSE 7310 MKII
	208/120V		DSE 7310 MKII
	600/347V		DSE 7310 MKII
Noise level (dBA@7m)	73 dB(A)		

Voltage (V)	PRP (KW)	ESP (KW)	PRP/ESP (A)
240/120V	134	150	568/625
208/120V	134	150	465/520
600/347V	134	150	161/180

PRP: Continuous power ("Prime Power") ISO 8528-1 standard.

ESP: Emergency power ("Emergency Standby Power") ISO8528-1 standard.

2 Engine Specifications

➤ PSI 8.8LT CAC-NG N/G engine, 8-cylinders, 4-stroke. Forced Induction aspiration, air intake system. Electronic regulation. Complying N/A emissions.

Engine General Data

Manufacturer/Model	PSI 8.8LT CAC-NG	Number of Cylinders	8 cylinders
R.P.M.	1800	Engine Capacity	8,8
Max. Power (kWm) (net)	195	Cooling System	Water cooled
Power PRP (Kwm) (net)	N/A	Regulation Type	Electronic
Fuel	N/G	Engine Type/Injection/Suction	N/G /Mixer/Forced Induction

2.1 Fuel Feed System

➤ A fuel inlet valve mounted in frame. An approved flexible fuel line is then connected to the Mixer injection system for vibration isolation.

50% PRP 1103 ft³/hr

100% PRP 1965 ft³/hr

Fuel inlet size 1.25" NPT

75% PRP 1529 ft³/hr

inlet Pressure 7-11" H₂O

2.2 Cooling System

➤ Cooling provided by a pusher fan across an industrial radiator. A belt driven water pump circulates coolant throughout the engine.

340

Fan Airflow (m3/min)

N/A
(N/A)

Fan Power Consumption, hp (kW)

28,5

Engine + Radiator Capacity (l)

1500W
120V

Blockheater (W/V)

2.3 Lubricating System

➤ Lubrication system is driven by the crankshaft driven oil pump. Full flow cartridge style filter is engine mounted. Original parts from the engine manufacture.

Total Oil Capacity 8,5L

2.4 Air Intake System

➤ Mixer air intake system including two-stage filter. Original parts from the engine manufacturer.

Combustion Air Volume 10,3 m³/min

2.5 Start System

➤ Start system by electric starter. A maintenance free battery is included. The belt driven battery charging alternator provides a charging circuit for the battery while the engine runs.

Number of Batteries

1

Battery Features

925CCA

Starting Voltage

12V

2.6 Exhaust System

Exhaust System

Exhaust Gas Volume	30,1 m ³ /min
Exhaust Gas Temperature	704 °C
Exhaust External Diameter	3,5" (89mm)
Max. Exhaust Backpressure	10,2kPa

3 Alternator Specifications

➤ Alternator STAMFORD 4-poles, brushless, alternator with class H insulation wound at 2/3 pitch and self-excited automatic voltage regulator (AVR).

Alternator General Data	240/120V	208/120V	600/347V
Brand/Model	STAMFORD UCI274F-w06	STAMFORD UCI274G	STAMFORD UCI274F
Winding No.	·06	311	17
Voltage Regulator AVR	SX460	SX460	SX460
Voltage Regulator	±1%	±1%	±1%
ESP Power Rating 40°C (kW)	150	164	165
PRP Power Rating 40°C (kW)	137	154	150
Number of Phases	1	3	3
Power Factor (cos φ)	1	0,8	0,8
Efficiency at 100% Load	88,6%	92,2%	92,7%
Efficiency at 110% Load	88,2%	92,0%	92,6%

The alternator complies with the following standards:

- Class H temperature rise 105°C (257°F), continuous rating.
- Class H temperature rise 125°C (302°F), standby rating.
- AS 1359
- IEC 34-1
- BS EN 60034-1
- VDE 0530
- BS 5000
- CAN/CSA-C22.2-100
- NEMA MG1-32

Low wave distortion: THD (100% load) = 2%, THF < 2%, Complying with EN61000-6-3, EN61000-6-2 standards on radio interference.

V.2-2021 • Last update: 16/02/2021 | Page 3

4 Frame Specifications

- Engine and alternator mounted on a high strength steel frame and painted with electrostatic epoxy polyester powder paint. Frame is tested in saline mist chamber to conform to ASTM B-117-09 for 500 hours. Engine and Alternator are mounted on rubber isolators to help dampen vibration while running.



5 Canopy Specifications

- Canopy made of high strength galvanized steel and is painted with electrostatic epoxy polyester paint. Canopy is lined with acoustical/fireproof rock wool. A critical exhaust muffler -30dB(A) is installed to dampen exhaust noise. All is tested in a saline mist chamber to conform with ASTM B-117-09 for 720 hour.



6 Control Panel

- The control panel protects the engine and generator and allows for manual and automatic control of the genset.



6.1 Main Line Breaker

- Main line circuit breaker: A thermo-magnetic breaker provides protection against short circuits and overloads.

240/120

800 Amps

208/120

600 Amps

600/347

200 Amps

6.2 Control Panel Features

Battery Charger

Permanently connected to the battery to keep the battery fully charged. Charger is equipped with a float feature to keep battery ready in a prime starting state.

Panel Fusing

Fusing to protect the control panel wiring and accessories.

6.3 Control Card

Control card for 600/347V: DSE 7310 MKII

Features of the DSE 7310 MKII Card:

- 132X64 pixel illuminate LCD display
- Full engine/alternator parameter and alarm read out
- 5-button menu navigation
- One touch Auto-Manual-Test and Stop buttons
- 9 factory configurable outputs
- 8 factory configurable inputs
- Programmable PLC for custom application
- Remote communication through an RS232 or RS485 connection
- Utility sensing Option

The control card complies with the following environmental tests:

- BS EN 61000-6-2 (electromagnetic compatibility)
- BS EN 61000-6-4 (electromagnetic compatibility)
- BS EN 60950 (electrical safety)
- BS EN 61000-6-2 (Temperature)
- BS EN 60068-2-6 (Vibration)
- BS EN 60068-2-30 (Humidity)
- BS EN 60068-2-27 (Shock)

6.4 Display

Control card for all Voltages: DSE 7310 MKII

Engine

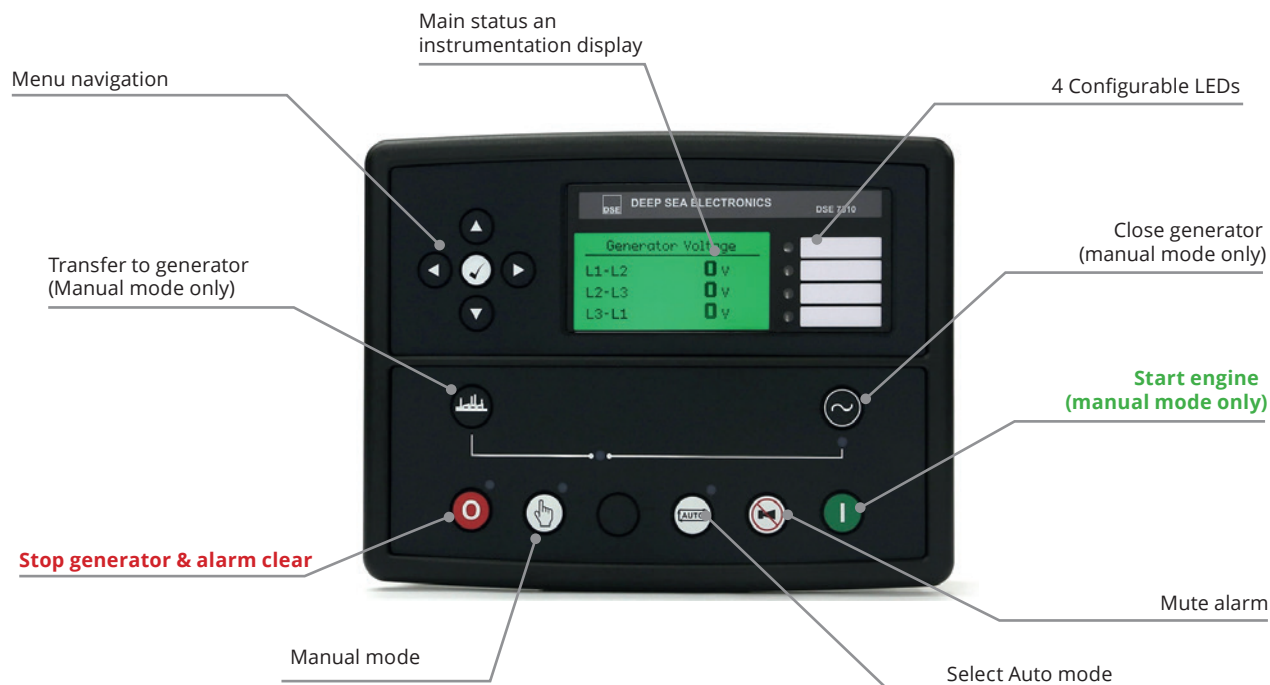
Engine Speed	Engine Hours
Oil Pressure	Number Engine Starts
Battery Voltage	Fuel Consumption
Fuel level	Engine Temperature

Generator

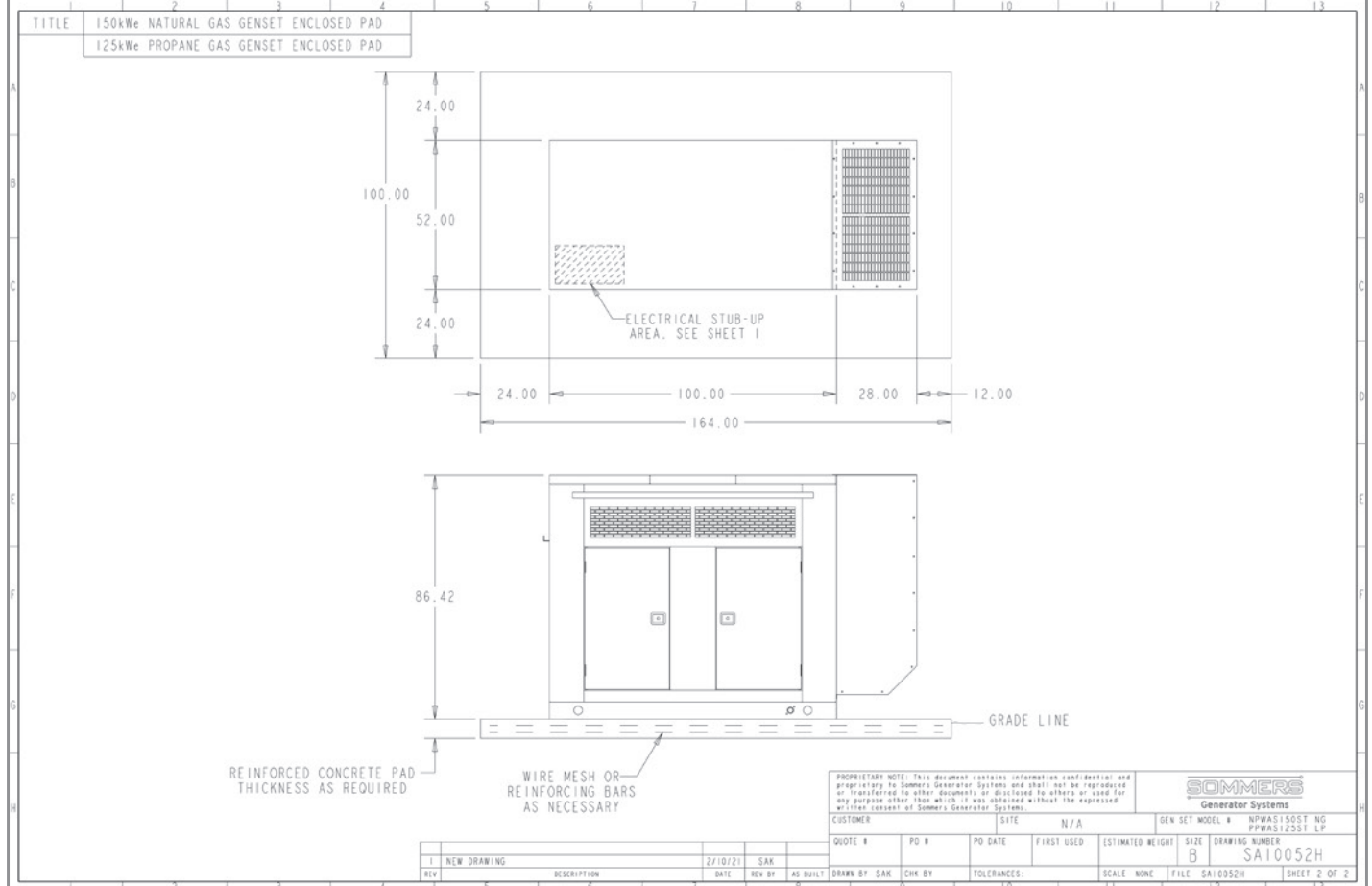
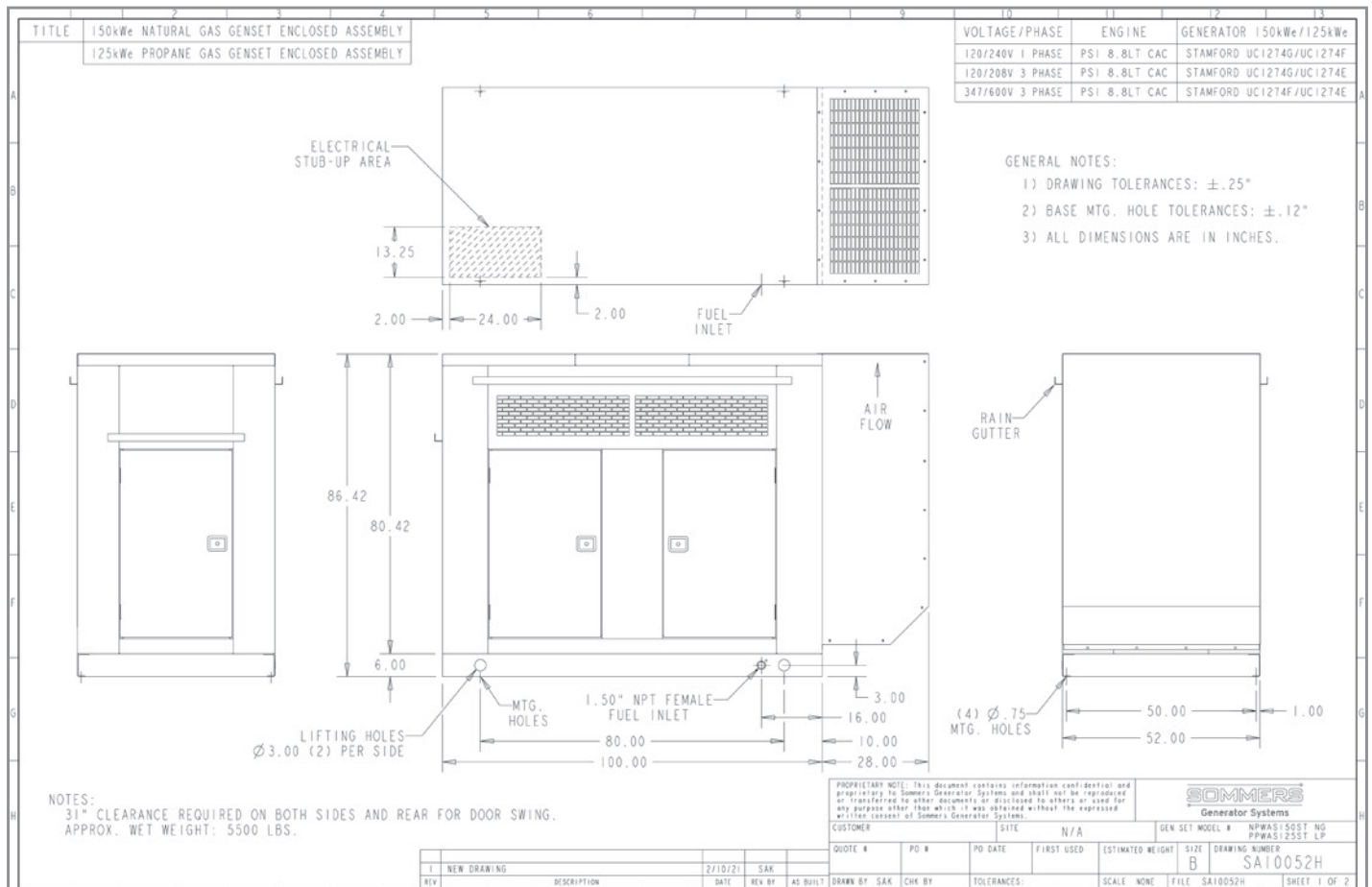
Voltage (L-N)	Voltage (L-L)
Frequency	Amperage
Power Factor	Load (kW, kVA, kVah)

Alarm Detected

Overcrank	High Engine Temp.
Low Oil Pressure	Low Engine Temp.
Low Coolant Level	Low Fuel Level
Low Plant Battery Voltage	Main Line Breaker
Over Voltage	Over Frequency
Under Voltage	Over Speed
Control Not In Auto	Lamp Test Features

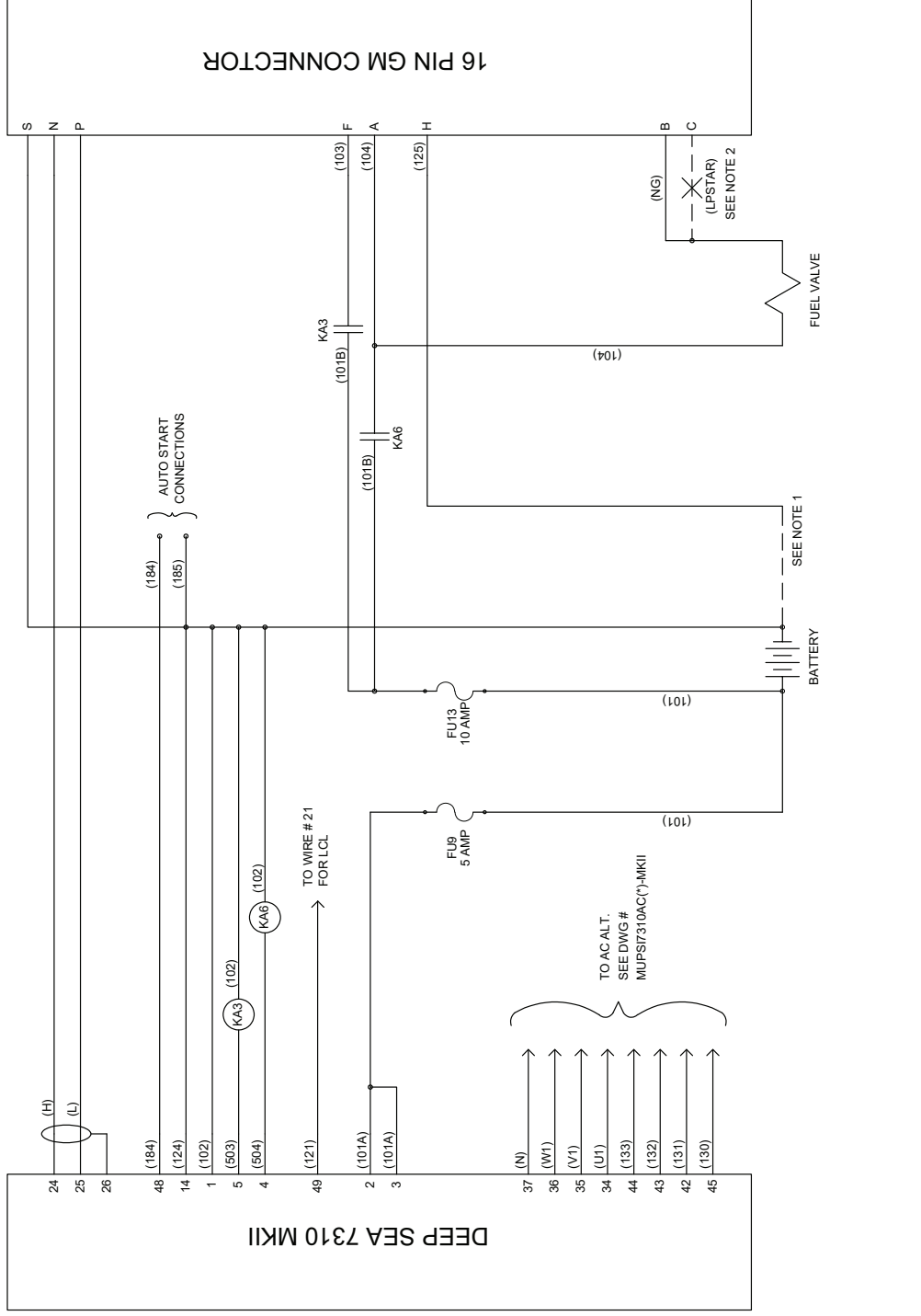


Gensets rated for operational ambient temperature of 40 C, in compliance of CSA C282-15. If ambient temperature exceeds 40 C, please contact sales representative for derating information. Emergency standby power(ESP): the maximum power available for which a genset is delivering in the event of a utility power outage or under test conditions for up to 200hours per year. Prime Power(PRP): the maximum power which a genset is capable of delivering continuously for an unlimited number of hours per year.



LEGEND:

KA3 START SLAVE RELAY
KA6 EOM SLAVE RELAY
FU9 5A DC PANEL FUSE
FU13 10A DC PANEL FUSE



TITLE				GM NG/LP SERIES			
AMMENDMENTS				DC CONNECTION DIAGRAM			
DATE	TECHNICIAN	CHANGE	SCALE	DATE	ENGINEER	DATE	SHEET
07/20/2012	ALK	INITIAL RELEASE	1/16"	07/20/2012	ALK	07/19/2012	1 OF 1
08/17/2016	MKG	MKG 7310 RELEASE					
COMMENTS							