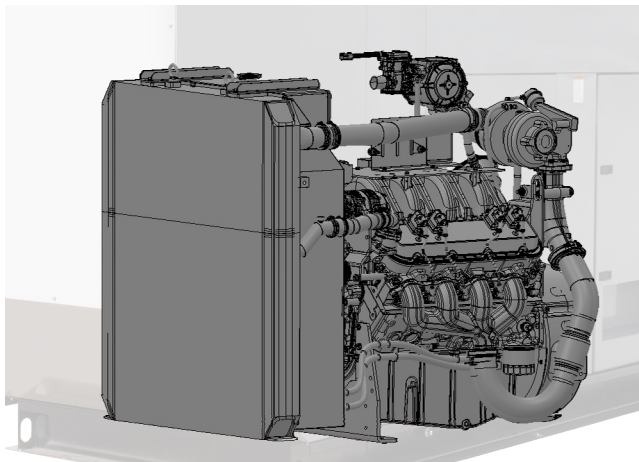




Industrial Engine



Brushless Industrial Genend.



## An American Company

We produce our products in our 200,000 ft<sup>2</sup> facility located in Le Center, Minnesota, equipped with modern engineering, fabrication and assembly capabilities.



## Full Load Tested

Every generator is 100% load tested



## DSE 7310 Controller

Provides immediate performance information



## Coolant Heater

120V in-line Hotstart coolant heater with thermostat



## Battery Charger

5 Amp, smart marine charger standard



## Galvanealed Steel Enclosure

Durable design with powder coat paint

## UL2200 Listed

A safety standard for the design, construction, and performance of stationary generators

# SPECIFICATIONS

## ELECTRICAL

VOLTS	POWER FACTOR	LP			NG		
		WATTS	KVA	AMPS	WATTS	KVA	AMPS
120/240 1-PH 4-LEAD	1.0	120,000	120,000	500	140,000	140,000	583
120/240 1-PH 12-LEAD	1.0	120,000	120,000	500	125,000	125,000	520
120/208 3-PH	0.8	125,000	156,000	434	150,000	187,000	521
120/240 3-PH	0.8	125,000	156,000	375	150,000	187,000	450
277/480 3-PH	0.8	125,000	156,000	188	150,000	187,000	225

## ENGINE

ENGINE MANUFACTURER	PSI
ENGINE MODEL	8.8 INDUSTRIAL
ENGINE STARTER	12V ELECTRIC
ENGINE SPEED	1800 RPM
ENGINE CYLINDERS	8
HP RATING	
NG	261
LP	230
FREQUENCY	60 HZ
TORQUE	
NG	495 FT/LBS
LP	565 FT/LBS
ALTERNATOR	AMPS
BMEP	
NG	PSI
LP	PSI
FLYWHEEL	FLAT FACED mm
ROTATION	CW FROM FRONT
ASPIRATION	TURBOCHARGED
EXHAUST OUTLET <sup>(1)</sup>	5"
BORE/STROKE	110.5 mm x 114.3 mm
DISPLACEMENT/TYPE	535 CID
LOW OIL PROTECTION	STANDARD
RECOMMENDED OIL <sup>(2)</sup>	10W-30 SAE
OIL CAPACITY	2 GALLONS
GOVERNOR	ELECTRONIC
COMPRESSION RATIO	10.1:1
FAN TYPE	PUSHER
COOLANT CAPACITY	14.5 L
HIGH COOLANT TEMP PROTECTION	STANDARD
COMBUSTION AIR	33.9 FT <sup>3</sup> /MIN
RADIATOR COOLING AIR	CFM <sup>(3)</sup>

NOTES: (1) Muffler ships loose. (2) The recommended oil is for normal applications. See operator's manual for the recommended oil for your needs. (3) Reading with no ducting attached with static pressure at 0 in water.

## PSS150

MOTOR STARTING (CODE G)	75 HP
CIRCUIT BREAKER <sup>(1)</sup>	ADJUSTABLE
TOTAL HARMONIC DISTORTION	< 5%
FLOATING NEUTRAL	YES
ASSEMBLED IN	USA
UL CERTIFICATION	UL2200 LISTED
EPA APPROVED	YES
CARB APPROVED	YES
CSA APPROVED	YES
UNIT WARRANTY <sup>(2)</sup>	2 YR/2000 HRS

NOTES: (1) When voltage connection is changed, the Instant Trip switch must be changed. See generator manual for complete details. (2) For more generator warranty, see operator's manual.

## GENERATOR END

SINGLE PHASE DEDICATED WINDING NUMBER	4 LEAD 06
SINGLE & THREE PHASE WINDING NUMBER	12 LEAD 311
VOLTAGE REGULATION	+/- 1%
AVR TYPE	AS440
TEMPERATURE RISE	125/40°C
TYPE	REVOLVING FIELD
BRUSHLESS	YES
SPEED	1800 RPM
ROTOR	2/3 PITCH
WINDINGS	100% COPPER
STATOR WINDING	DOUBLE LAYER CONCENTRIC
COUPLING	DIRECT/FLEXIBLE DISC
BEARINGS	SINGLE (MAINTENANCE FREE)
EFFICIENCY PEAK @ 0.8 PF	
06 WINDING	84.2%
311 WINDING	90.4%
INSULATION	CLASS H
INGRESS PROTECTION	IP23



# SPECIFICATIONS

## DERATES

ABOVE SEA LEVEL PER 1,000 FT	3%
TEMPERATURE EVERY 10°F ABOVE 77°F	3%

## FUEL

INLET PRESSURE	4-6 OZ/7-11" WATER COLUMN
FUEL INLET SIZE	1.25"
FUEL CONSUMPTION NG	
100%	1,965 FT <sup>3</sup> /HR - 2,004,300 BTU/HR
50%	FT <sup>3</sup> /HR - BTU/HR
0%	FT <sup>3</sup> /HR - BTU/HR
FUEL CONSUMPTION LP	
100%	713 GAL/HR - 1,832,410 BTU/HR
50%	GAL/HR - BTU/HR
0%	GAL/HR - BTU/HR

## DBA @ 7 METERS

NO LOAD	77.6
FULL LOAD	80.8

## DSE 7310 CONTROLLER

### ENGINE DISPLAY/PROTECTION

ENGINE RPM	YES
LOW OIL PRESSURE	YES
HIGH COOLANT TEMP	YES
LOW COOLANT	OPTIONAL
OVER/UNDER SPEED	YES
OVER CRANK	YES
CAN ECU SHUTDOWN	YES
ENGINE MAINTENANCE CODES	YES

### GENSET DISPLAY/PROTECTION

VOLTAGE (L-N & L-L)	YES
OVER/UNDER VOLTAGE	YES
FREQUENCY	YES
OVER/UNDER FREQUENCY	YES
AMP DISPLAY/SHUTDOWN	YES
PHASE IMBALANCE	DISABLED
KW, KVA, KVAR DISPLAY	YES
KWH, KVAH, KVARH DISPLAY	YES
GENERATOR PHASE SEQUENCE	OPTIONAL

## SHIPPING

SHIPPING DIMENSIONS (L x W x H)	
OPEN	117" x 52.73" x 72.1"
HOUSED	132" x 52.73" x 72.2"
SHIP WEIGHT	5,500 LBS
FREIGHT CLASS	70

## BATTERY

DC SYSTEM	12V
DC ALTERNATOR	ENGINE MOUNTED
BATTERY RACK/CABLE	INCLUDED
BATTERY CHARGER	5 AMP INCLUDED
REQUIRED BATTERY <sup>(1)</sup>	GROUP 31 900 CCA

Notes: (1) Battery not included.

## OPTIONAL ACCESSORIES

GENERATOR STRIP HEATER
AUTOMATIC TRANSFER SWITCH
VAPOR FUEL STRAINER
BATTERY CHARGER UPGRADE
BATTERY HEATER
NFPA 110 LEVEL 1
WEBNET
LP LIQUID WITHDRAWAL

### ADDITIONAL DISPLAYS/PROTECTIONS

EXTERNAL E-STOP	CUSTOMER SUPPLIED
BATTERY VOLTAGE	YES
BATTERY OVER/UNDER VOLTAGE	YES

### COMMUNICATIONS

USB CONNECTABLE	YES
RS232/RS485	YES
REMOTE DISPLAY PANEL	OPTIONAL
DSE WEB NET	OPTIONAL

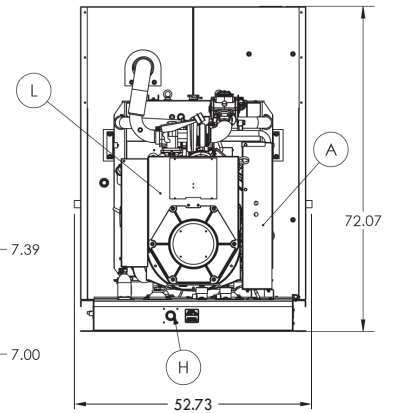
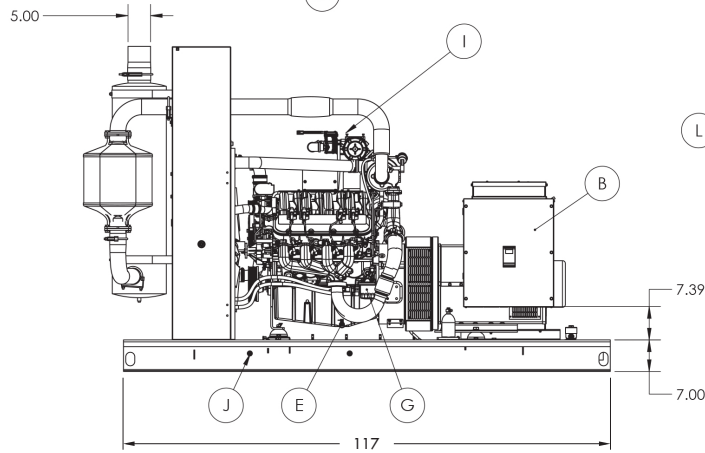
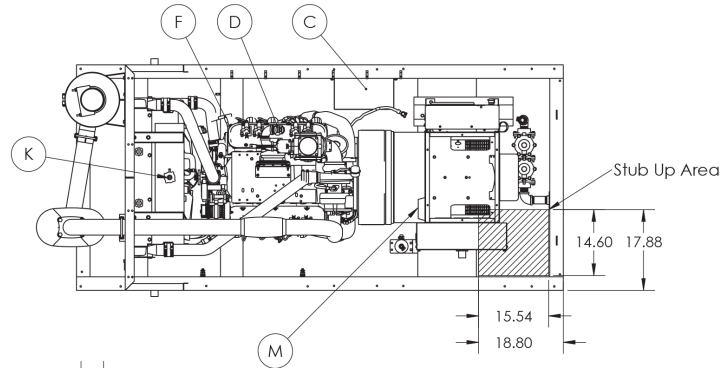
### ADDITIONAL FEATURES

AUDIBLE ALARM	YES
ENGINE EXERCISER	DISABLED
MAINTENANCE INTERVAL TIMER	DISABLED
LOAD SHEDDING/DUMMY	DISABLED
CONFIGURABLE INPUTS	4 (EXPANDABLE)
CONFIGURABLE OUTPUTS	4 (EXPANDABLE)
EVENT LOG	250



# DRAWINGS

## OPEN SKID



KEY COMPONENTS	
A	ENGINE CONTROL
B	MAIN LINE CIRCUIT BREAKER
C	GROUP 24 BATTERY (NOT INCLUDED)
D	OIL FILL
E	OIL DRAIN
F	OIL DIPSTICK
G	OIL FILTER
H	FUEL INLET
I	AIR FILTER
J	COOLANT DRAIN
K	COOLANT FILL
L	AVR
M	BATTERY CHARGER

## ENCLOSED

