

WINCO[®] GENERATORS

PSS21

21,000 WATTS LP
21,000 WATTS NG

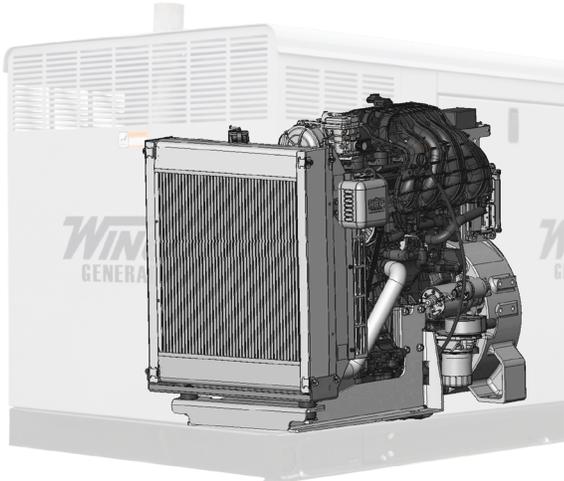
STANDBY

Rugged Design

Durable enclosure with powder coat paint



Industrial Ford Engine



Brushless Industrial Genend.



An American Company

We produce our products in our 200,000ft² 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



TÜV Certified

The design, construction, and performance of our stationary generators conform to UL2200 & CSA standards



SPECIFICATIONS

ELECTRICAL

VOLTS	POWER FACTOR	LP			NG			MAIN CIRCUIT BREAKER AMPS
		WATTS	KVA	AMPS	WATTS	KVA	AMPS	
120/240 1-PH	1.0	21,000	21	88	21,000	21	88	90
120/208 3-PH	0.8	22,000	27.5	76	22,000	27.5	76	80
120/240 3-PH	0.8	22,000	27.5	66	22,000	27.5	66	80
277/480 3-PH	0.8	24,000	30	36	24,000	30	36	35
346/600 3-PH	0.8	24,000	30	29	24,000	30	29	35

ENGINE

ENGINE MANUFACTURER	FORD
ENGINE MODEL	MSG-425
ENGINE STARTER	12V ELECTRIC
ENGINE SPEED	1800 RPM
ENGINE CYLINDERS	4
HP RATING	
NG	47
LP	49
FREQUENCY	60 HZ
TORQUE	
NG	137 FT/LBS
LP	140 FT/LBS
ALTERNATOR	95 AMPS
FLYWHEEL	10"
ROTATION	CCW
ASPIRATION	NATURAL
EXHAUST OUTLET	3"
BORE/STROKE	89 mm x 100 mm
DISPLACEMENT/TYPE	2.5 L
LOW OIL PROTECTION	STANDARD
RECOMMENDED OIL ⁽¹⁾	5W-20 SAE
OIL CAPACITY	7 QT
GOVERNOR	ELECTRONIC
COMPRESSION RATIO	9.7:1
FAN TYPE	PUSHER
COOLANT CAPACITY	6.6 QT
HIGH COOLANT TEMP PROTECTION	STANDARD
COMBUSTION AIR	67.54 CFM
RADIATOR COOLING AIR	4420 CFM

NOTES: (1) The recommended oil is for normal applications. See operator's manual for the recommended oil for your needs.

PSS21

MOTOR STARTING (CODE G)	7 HP
DBA @ 7 METERS	75
TOTAL HARMONIC DISTORTION	< 5%
FLOATING NEUTRAL	YES
ASSEMBLED IN	USA
EPA APPROVED	STANDBY ONLY
TÜV CERTIFICATION	UL2200 CSA
UNIT WARRANTY ⁽¹⁾	2 YR/2000 HRS

NOTES: (1) For more generator warranty, see operator's manual.

GENERATOR END

WINDING	
SINGLE PHASE	4 LEAD
THREE PHASE	12 LEAD
WINDING NUMBER	
SINGLE PHASE	706
THREE PHASE	711
VOLTAGE REGULATION	AVR +/- 1%
AVR TYPE	AS540
TEMPERATURE RISE	125/40° C
TYPE	REVOLVING FIELD
BRUSHLESS	YES
SPEED	1800 RPM
ROTOR	2/3 PITCH
WINDINGS	100% COPPER
STATOR WINDING	
706	SINGLE LAYER CONCENTRIC
711	DOUBLE LAYER CONCENTRIC
COUPLING	DIRECT/FLEXIBLE DISC
BEARINGS	SINGLE (MAINTENANCE FREE)
EFFICIENCY PEAK	
SINGLE PHASE 1.0 PF	79.6
THREE PHASE 0.8 PF	87.7
INSULATION	CLASS H
INGRESS PROTECTION	IP23

SPECIFICATIONS

DERATES

ABOVE SEA LEVEL EVERY 1,000 FT	4%
TEMPERATURE EVERY 10°F ABOVE 77°F	2%

Note: (1) Generator rating is based on 1,000 ft above sea level

DBA @ 7 METERS

FULL LOAD	73
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FUEL

INLET PRESSURE	4-6 OZ/7-11" WATER COLUMN
FUEL INLET SIZE	3/4"
FUEL CONSUMPTION NG	
100%	261 FT ³ /HR - 264,915 BTU/HR
75%	214 FT ³ /HR - 217,210 BTU/HR
50%	166 FT ³ /HR - 168,490 BTU/HR
25%	119 FT ³ /HR - 120,785 BTU/HR
0%	71 FT ³ /HR - 72,065 BTU/HR
FUEL CONSUMPTION LP	
100%	2.9 GAL/HR - 263,900 BTU/HR
75%	2.4 GAL/HR - 218,400 BTU/HR
50%	1.9 GAL/HR - 172,900 BTU/HR
25%	1.4 GAL/HR - 127,400 BTU/HR
0%	0.90 GAL/HR - 81,900 BTU/HR

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)	86" x 40" x 51"
SHIP WEIGHT	1,570 LBS
FREIGHT CLASS	70

BATTERY

DC SYSTEM	12V
DC ALTERNATOR	ENGINE MOUNTED
BATTERY RACK/CABLE	INCLUDED
BATTERY CHARGER	5 AMP INCLUDED
REQUIRED BATTERY ⁽¹⁾	GROUP 24 650 CC

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

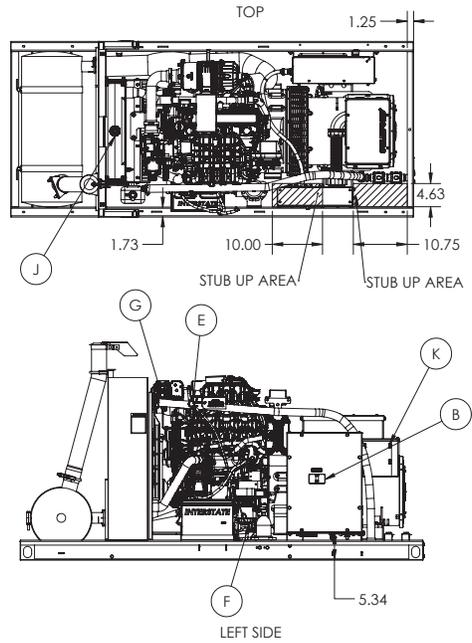
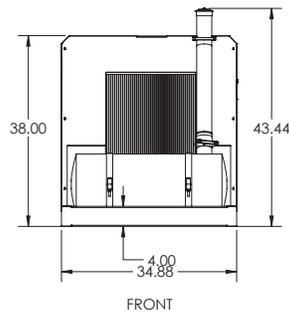
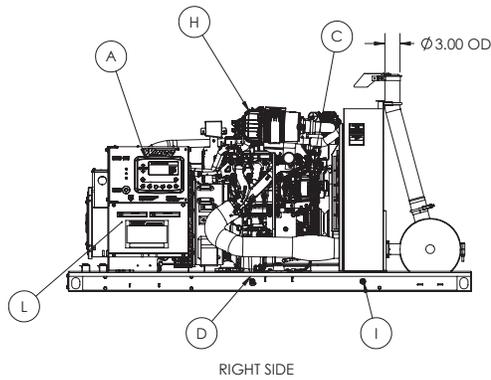
ADDITIONAL FEATURES

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

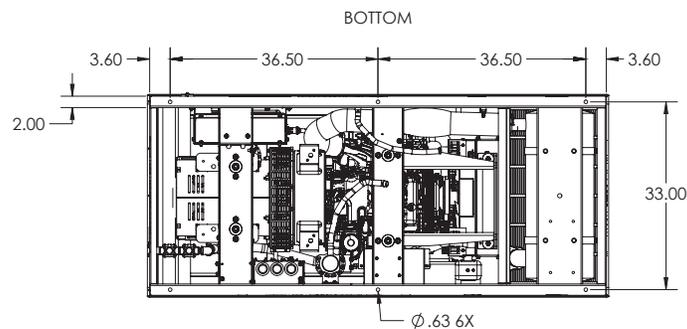
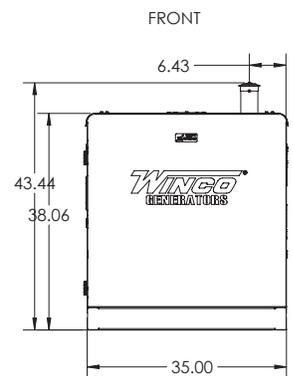
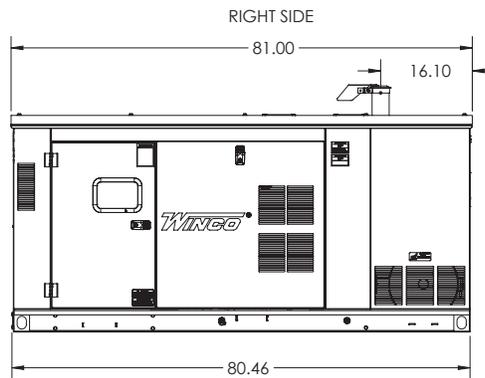
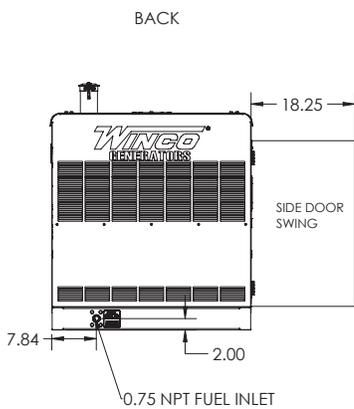
DRAWINGS

OPEN SKID

KEY COMPONENTS	
A	ENGINE CONTROL
B	MAIN LINE CIRCUIT BREAKER
C	OIL FILL
D	OIL DRAIN
E	OIL DIPSTICK
F	OIL FILTER
G	FUEL INLET
H	AIR FILTER
I	COOLANT DRAIN
J	COOLANT FILL
K	AVR
L	BATTERY CHARGER



ENCLOSED



Specifications are subject to change without notice.

