

WINCO[®] GENERATORS



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



PSS90/E PSS90/F

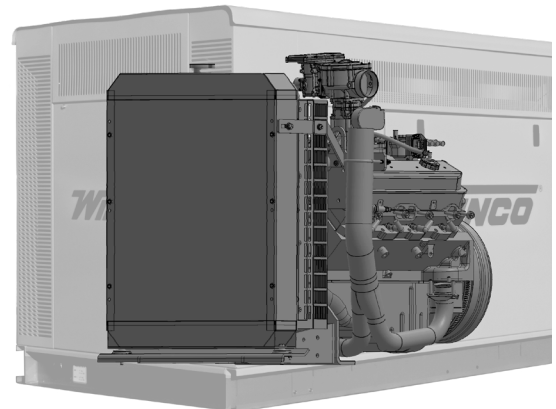
80,000 WATTS

Rugged Design

Durable enclosure with powder coat paint



Industrial GM Engine



Brushless Industrial Genend



SPECIFICATIONS

ELECTRICAL

VOLTS	POWER FACTOR	LP			NG			MAIN CIRCUIT BREAKER AMPS
		WATTS	KVA	AMPS	WATTS	KVA	AMPS	
120/240 1-PH	1.0	80,000	80,000	333	90,000	90,000	375	400
120/208 3-PH	0.8	80,000	100,000	278	90,000	112,500	312	300
120/240 3-PH	0.8	80,000	100,000	240	90,000	112,500	270	300
277/480 3-PH	0.8	80,000	100,000	120	90,000	112,500	135	150
346/600 3-PH	0.8	80,000	100,000	96	90,000	112,500	108	100

ENGINE

ENGINE MANUFACTURER	GM
ENGINE MODEL	5.7L INDUSTRIAL
ENGINE STARTER	12V ELECTRIC
ENGINE SPEED	1800 RPM
ENGINE CYLINDERS	8
HP RATING	
NG	153
LP	90
FREQUENCY	60 HZ
TORQUE	
NG	230 FT/LBS
LP	255 FT/LBS
ALTERNATOR	70 AMPS
BMEP	
NG	206 PSI
LP	187 PSI
FLYWHEEL	11.5"
ROTATION	CCW
ASPIRATION	TURBOCHARGED/AC
EXHAUST OUTLET ⁽¹⁾	3.5"
BORE/STROKE	101.6 mm x 88.4 mm
DISPLACEMENT/TYPE	350 CID
LOW OIL PROTECTION	STANDARD
RECOMMENDED OIL ⁽²⁾	10W-30 SAE
OIL CAPACITY	5.0 QT
GOVERNOR	ELECTRONIC
COMPRESSION RATIO	9.4:1
FAN TYPE	PUSHER
COOLANT CAPACITY	7.3 L
HIGH COOLANT TEMP PROTECTION	STANDARD
COMBUSTION AIR	262FT ³ /MIN
RADIATOR COOLING AIR	16,300 CFM ⁽³⁾

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.

PSS90

MOTOR STARTING (CODE G)	40 HP
TOTAL HARMONIC DISTORTION	< 5%
FLOATING NEUTRAL	YES
ASSEMBLED IN	USA
EPA APPROVED	YES
TÜV CERTIFICATION	UL2200 CSA
UNIT WARRANTY ⁽¹⁾	2 YR/2000 HRS

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

GENERATOR END

SINGLE PHASE	4 LEAD
WINDING NUMBER	06
THREE PHASE	12 LEAD
WINDING NUMBER	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	
06 WINDING	SINGLE LAYER CONCENTRIC
311 WINDING	DOUBLE LAYER CONCENTRIC
COUPLING	DIRECT/FLEXIBLE DISC
BEARINGS	SINGLE (MAINTENANCE FREE)
EFFICIENCY PEAK @ 0.8 PF	
06 WINDING	81.5%
311 WINDING	90.6%
INSULATION	CLASS H
INGRESS PROTECTION	IP23



SPECIFICATIONS

BLOCK HEATER

VOLTS	120
WATTS	1,000
AMPS	8.4
THERMOSTAT	
ON	100° F
OFF	120° F

DERATES

ABOVE SEA LEVEL	
PER 1,000 FT	3%
AMBIENT 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%	1,230 FT³/HR - 1,230,000 BTU/HR
50%	768 FT³/HR - 768,750 BTU/HR
0%	307 FT³/HR - 307,500 BTU/HR
FUEL CONSUMPTION LP	
100%	12.4 GAL/HR - 1,192,000 BTU/HR
50%	7.8 GAL/HR - 745,000 BTU/HR
0%	3.1 GAL/HR - 298,000 BTU/HR

DSE 7310 CONTROLLER

ENGINE DISPLAY/PROTECTION

ENGINE RPM	YES
LOW OIL PRESSURE	YES
HIGH COOLANT TEMP	YES
LOW COOLANT	YES
OVER/UNDER SPEED	YES
OVER CRANK	YES
CAN ECU SHUTDOWN	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	FIELD ENABLED
KW, KVA, KVAR DISPLAY	YES
KWH, KVAH, KVARH DISPLAY	YES
GENERATOR PHASE SEQUENCE	OPTIONAL

SHIPPING

SHIPPING DIMENSIONS (L x W x H)	113" x 47" x 67"
SHIP WEIGHT	2,964 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.

DBA @ 7 METERS

FULL LOAD	82
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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	FIELD INSTALLED
BATTERY VOLTAGE	YES
BATTERY OVER/UNDER VOLTAGE	YES

COMMUNICATIONS

USB CONNECTABLE	YES
RS232/RS485	YES
NFPA ANNUNCIATOR	OPTIONAL
REMOTE DISPLAY PANEL	OPTIONAL

ADDITIONAL FEATURES

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

Specifications are subject to change without notice.

