

# WINCO<sup>®</sup> GENERATORS

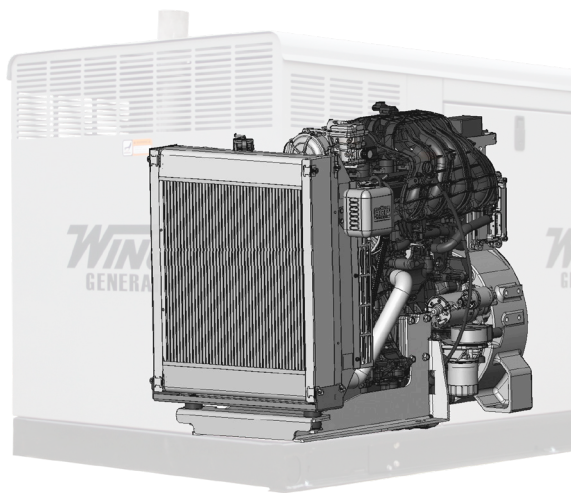
## STANDBY

### Rugged Design.

Durable enclosure with powder coat paint



### Industrial Ford Engine.



### Brushless Industrial Genend.



# PSS30

28,000 WATTS LP  
27,000 WATTS NG



### An American Company

We produce our products in our 200,000ft<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



### 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	27,000	27	112	26,000	26	108	125
120/208 3-PH	0.8	28,000	35	97	27,000	33.7	93	100
120/240 3-PH	0.8	28,000	35	84	27,000	33.7	81	100
277/480 3-PH	0.8	28,000	35	42	27,000	33.7	40	45
346/600 3-PH	0.8	28,000	35	33	27,000	33.7	32	45

## 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	70 FT/LBS
LP	63 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 <sup>(1)</sup>	5W-30 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.

## PSS30

MOTOR STARTING (CODE G)	10 HP
TOTAL HARMONIC DISTORTION	< 5%
FLOATING NEUTRAL	YES
ASSEMBLED IN	USA
EPA APPROVED	STANDBY ONLY
TÜV CERTIFICATION	UL2200 CSA
UNIT WARRANTY <sup>(1)</sup>	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	84.1
THREE PHASE 0.8 PF	79.4
INSULATION	CLASS H
INGRESS PROTECTION	IP23

# SPECIFICATIONS

## DERATES

ABOVE SEA LEVEL <sup>(1)</sup>	
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	75
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## FUEL

INLET PRESSURE	4-6 OZ/7-11" WATER COLUMN
FUEL INLET SIZE	3/4"
FUEL CONSUMPTION NG	
100%	306 FT <sup>3</sup> /HR - 321,576 BTU/HR
75%	248 FT <sup>3</sup> /HR - 267,524 BTU/HR
50%	191 FT <sup>3</sup> /HR - 205,787 BTU/HR
25%	134 FT <sup>3</sup> /HR - 144,050 BTU/HR
0%	71 FT <sup>3</sup> /HR - 82,312 BTU/HR
FUEL CONSUMPTION LP	
100%	3.6 GAL/HR - 327,600 BTU/HR
75%	2.9 GAL/HR - 263,900 BTU/HR
50%	2.25 GAL/HR - 204,750 BTU/HR
25%	1.58 GAL/HR - 143,780 BTU/HR
0%	0.90 GAL/HR - 81,900 BTU/HR

## 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 <sup>(1)</sup>	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

## 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

### 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

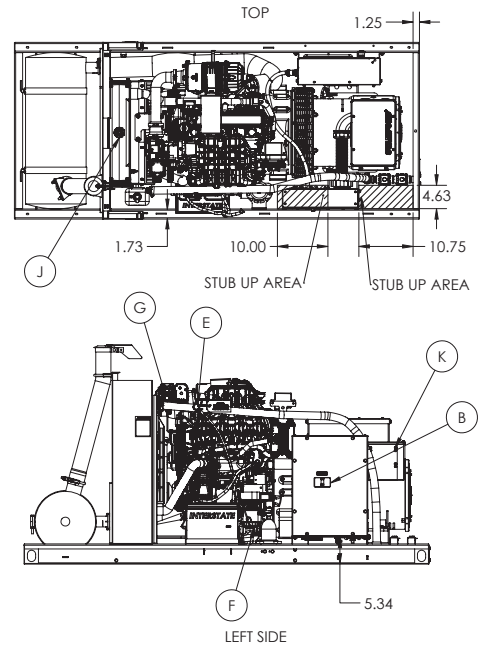
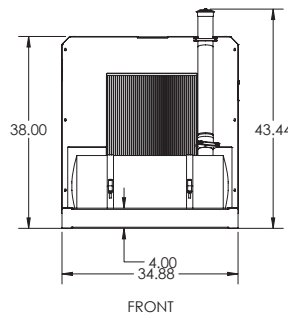
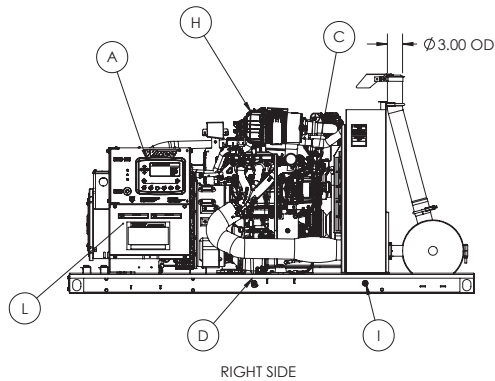
AUDIBLE ALARM	YES
ENGINE EXERCISER	DISABLED
MAINTENANCE INTERVAL TIMER	DISABLED
LOAD SHEDDING/DUMMY	DISABLED
CONFIGURABLE INPUTS	4 (EXPANDABLE)
CONFIGURABLE OUTPUTS	4 (EXPANDABLE)
EVENT LOG	250



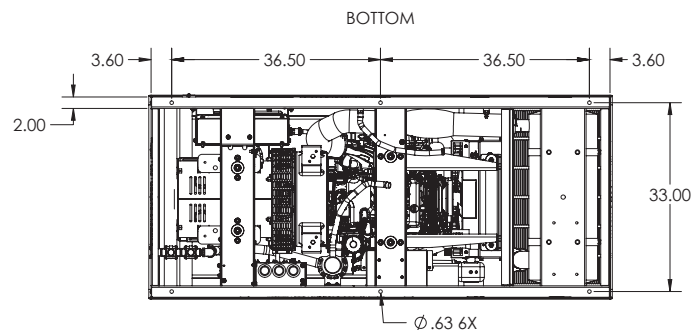
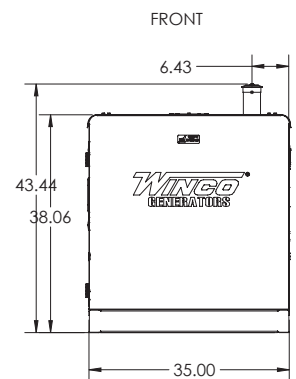
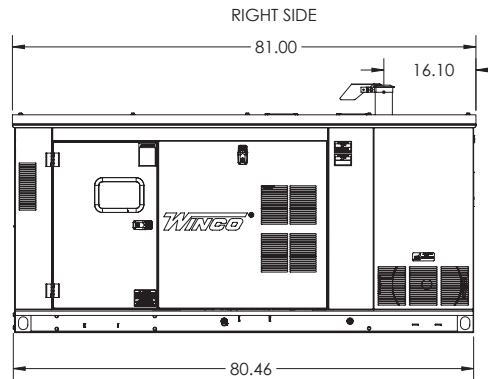
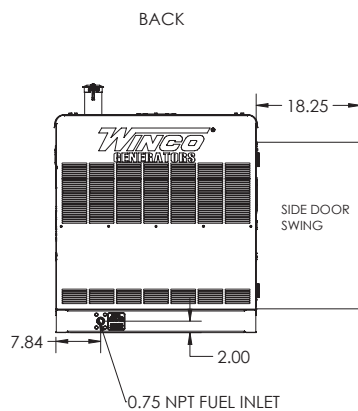
# DRAWINGS

## 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



BOTTOM VIEW