

WINCO[®] GENERATORS

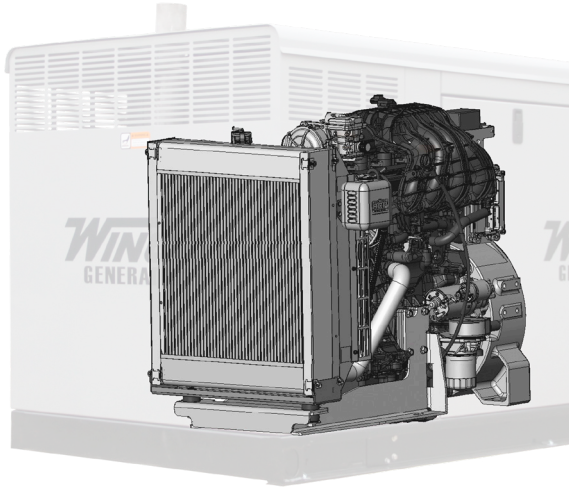
PSS30

28,000 WATTS LP
27,000 WATTS NG

STANDBY



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



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 | | | MAIN CIRCUIT BREAKER AMPS |
|--------------|--------------|--------|-----|------|--------|------|------|---------------------------|
| | | WATTS | KVA | AMPS | WATTS | KVA | AMPS | |
| 120/240 1-PH | 1.0 | 28,000 | 28 | 116 | 27,000 | 27 | 112 | 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 |

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 ⁽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.

PSS30

| | |
|------------------------------|---------------|
| MOTOR STARTING (CODE G) | 10 HP |
| DBA @ 7 METERS | 75 |
| TOTAL HARMONIC DISTORTION | < 5% |
| FLOATING NEUTRAL | YES |
| ASSEMBLED IN | USA |
| UL CERTIFICATION | UL2200 LISTED |
| EPA APPROVED | STANDBY ONLY |
| CSA APPROVED | YES |
| 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 | 84.1 |
| THREE PHASE 0.8 PF | 79.4 |
| INSULATION | CLASS H |
| INGRESS PROTECTION | IP23 |

SPECIFICATIONS

DERATES

| | |
|--------------------------------------|----|
| ABOVE SEA LEVEL PER 1,000 FT | 4% |
| TEMPERATURE EVERY 42°F ABOVE 77°F | 2% |

FUEL

| | |
|---------------------|--|
| INLET PRESSURE | 4-6 OZ/7-11" WATER COLUMN |
| FUEL INLET SIZE | 3/4" |
| FUEL CONSUMPTION NG | |
| 100% | 306 FT ³ /HR - 321,576 BTU/HR |
| 75% | 248 FT ³ /HR - 267,524 BTU/HR |
| 50% | 191 FT ³ /HR - 205,787 BTU/HR |
| 25% | 134 FT ³ /HR - 144,050 BTU/HR |
| 0% | 71 FT ³ /HR - 82,312 BTU/HR |
| FUEL CONSUMPTION LP | |
| 100% | 3.6 GAL/HR - 227,600 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 ⁽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

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 |

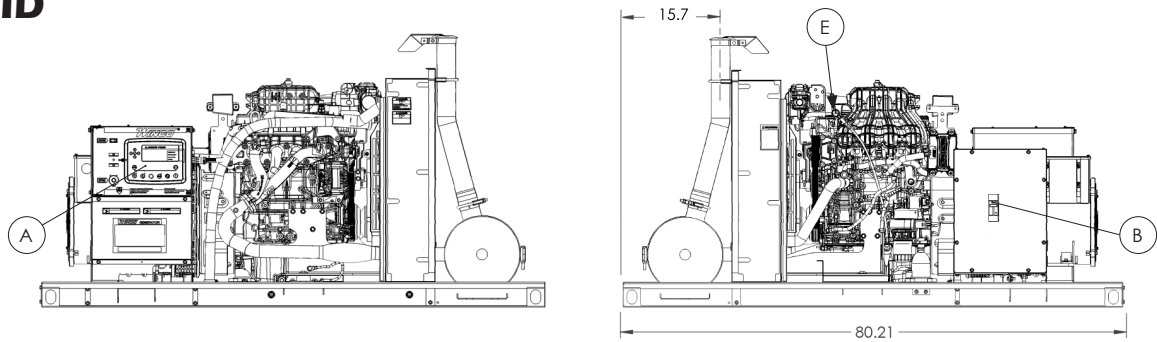
ADDITIONAL FEATURES

| | |
|----------------------------|----------------|
| 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 |

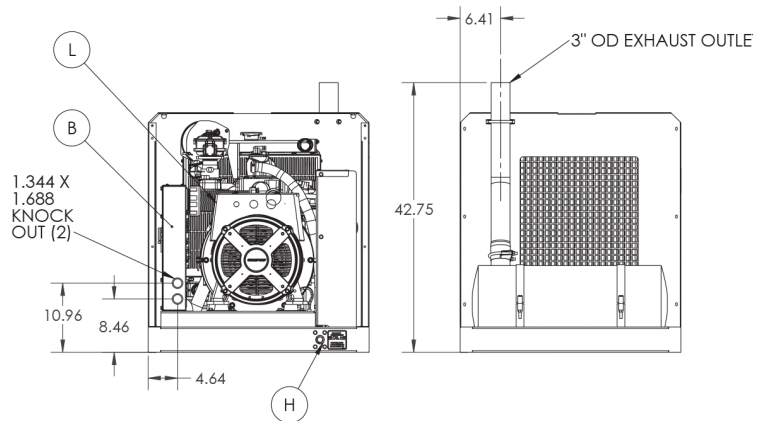


DRAWINGS

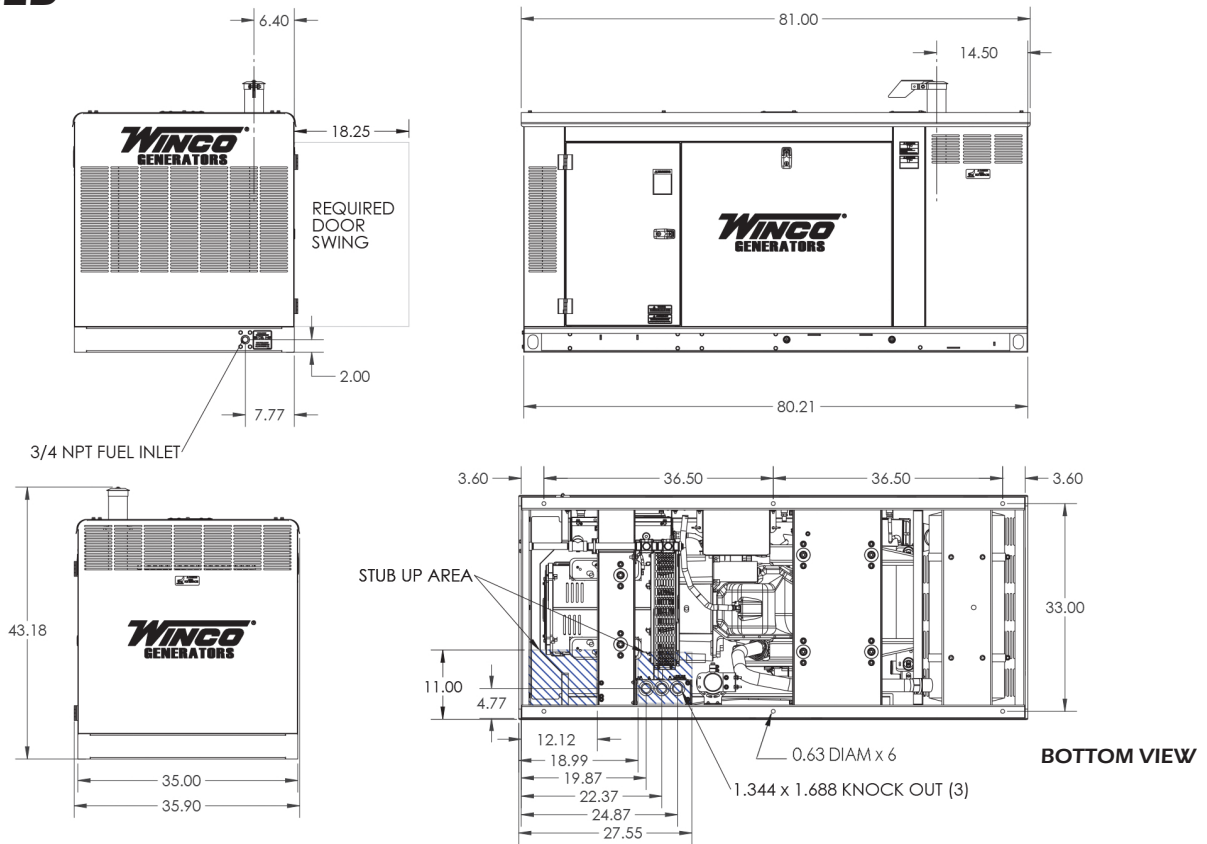
OPEN SKID



| KEY COMPONENTS | |
|----------------|---------------------------------|
| A | ENGINE CONTROL |
| B | MAIN LINE CIRCUIT BREAKER |
| C | 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



Specifications are subject to change without notice.

