

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



PSS45R4

40,000 WATTS LP

38,000 WATTS NG

PRIME

Rugged Design.

Durable enclosure with powder coat paint



EPA APPROVED



PRIME

Cummins Industrial Genend.



SPECIFICATIONS

ELECTRICAL

| VOLTS | PF | PRIME | | | | | | STANDBY | | | | | | MLCB AMPS |
|--------------|-----|--------|-----|-------|--------|------|-------|---------|-----|-------|--------|------|-------|-----------|
| | | LP | | | NG | | | LP | | | NG | | | |
| | | WATTS | KVA | AMPS | WATTS | KVA | AMPS | WATTS | KVA | AMPS | WATTS | KVA | AMPS | |
| 120/240 1-PH | 1.0 | 40,000 | 40 | 166.6 | 38,000 | 38 | 158.3 | 40,000 | 40 | 166.6 | 38,000 | 38 | 158.3 | 175 |
| 120/208 3-PH | 0.8 | 40,000 | 50 | 138.8 | 38,000 | 47.5 | 131.9 | 40,000 | 50 | 138.8 | 38,000 | 47.5 | 131.9 | 150 |
| 120/240 3-PH | 0.8 | 40,000 | 50 | 120.1 | 38,000 | 47.5 | 114.1 | 40,000 | 50 | 120.1 | 38,000 | 47.5 | 114.1 | 125 |
| 277/480 3-PH | 0.8 | 40,000 | 50 | 60.2 | 38,000 | 47.5 | 57.1 | 40,000 | 50 | 60.2 | 38,000 | 47.5 | 57.1 | 60 |
| 346/600 3-PH | 0.8 | 40,000 | 50 | 48.1 | 38,000 | 47.5 | 45.7 | 40,000 | 50 | 48.1 | 38,000 | 47.5 | 45.7 | 45 |

ENGINE

| | |
|--------------------------------|----------------|
| ENGINE BRAND | ORIGIN |
| ENGINE MODEL | 4.3L |
| ENGINE STARTER | 12V ELECTRIC |
| ENGINE SPEED | 1800 RPM |
| ENGINE CYLINDERS | 6 |
| ENGINE HP | 73 |
| FREQUENCY ⁽¹⁾ | 60 HZ |
| ALTERNATOR | 70 AMP |
| FLYWHEEL | 10/11.5" |
| ROTATION | CCW |
| ASPIRATION | NATURAL |
| BORE/STROKE | 101 mm x 88 mm |
| DISPLACEMENT | 4.3L |
| LOW OIL PROTECTION | STANDARD |
| RECOMMENDED OIL ⁽²⁾ | 5W-40 SAE |
| OIL CAPACITY | 4 QTS |
| GOVERNOR | ELECTRONIC |
| COMPRESSION RATIO | 10.1:1 |
| FAN TYPE | PUSHER |
| COOLANT | 3 GAL |
| RADIATOR COOLING AIR | 5000 CFM |
| EXHAUST FLOW | 243 CFM |
| EXHAUST OUTLET SIZE | 2.5" |
| COMBUSTION AIR | |
| LP | 94.3 CFM |
| NG | 89.0 CFM |
| STARTING TEMP W/BLOCK HEATER | -30° F |

NOTES: (1) Steady state frequency regulation. (2) The recommended oil is for normal applications. See operator's manual for the recommended oil for your needs.

PSS45

| | |
|------------------------------|-----------------|
| MOTOR STARTING (CODE G) | 20 HP |
| DBA @ 7 METERS | 72 |
| TOTAL HARMONIC DISTORTION | < 5% |
| FLOATING NEUTRAL | YES |
| ASSEMBLED IN | USA |
| EPA APPROVED | YES |
| CARB APPROVED | YES |
| TÜV CERTIFICATION | UL2200 CSA |
| UNIT WARRANTY ⁽¹⁾ | 1 YEAR/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 | 06 |
| THREE PHASE | 311 |
| VOLTAGE REGULATION | AVR +/- 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 | |
| SINGLE PHASE | 80 |
| THREE PHASE | 89 |
| INSULATION | CLASS H |
| INGRESS PROTECTION | IP23 |



SPECIFICATIONS

DERATES

| | |
|-------------------------------------|-------------------|
| ABOVE SEA LEVEL 2,000 FT | 4.8% PER 1,000 FT |
| TEMPERATURE EVERY 10° ABOVE 77°F | 2% |

BLOCK HEATER

| | |
|------------------|-----------|
| VOLTS | 120 |
| WATTS | 1,500 |
| AMPS | 12.5 AMPS |
| THERMOSTAT ON | 100° F |
| OFF | 120° F |

FUEL

| | |
|---------------------|--|
| INLET PRESSURE | 4-6 OZ/7-11" WATER COLUMN |
| FUEL INLET SIZE | 0.75" |
| FUEL CONSUMPTION NG | |
| 100% | 605 FT ³ /HR - 605,000 BTU/HR |
| 75% | 471 FT ³ /HR - 471,000 BTU/HR |
| 50% | 336 FT ³ /HR - 336,000 BTU/HR |
| 25% | 201 FT ³ /HR - 201,000 BTU/HR |
| FUEL CONSUMPTION LP | |
| 100% | 5.4 GAL/HR - 516,000 BTU/HR |
| 75% | 4.2 GAL/HR - 401,000 BTU/HR |
| 50% | 2.9 GAL/HR - 277,200 BTU/HR |
| 25% | 1.7 GAL/HR - 162,500 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 |
| 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 | FIELD ENABLED |
| KW, KVA, KVARH DISPLAY | YES |
| KWH, KVAH, KVARH DISPLAY | YES |
| GENERATOR PHASE SEQUENCE | OPTIONAL |

Specifications are subject to change without notice.

BATTERY

| | |
|---------------------------------|------------------|
| DC SYSTEM | 12V |
| BATTERY RACK/CABLE | INCLUDED |
| BATTERY CHARGER | 5 AMP |
| REQUIRED BATTERY ⁽¹⁾ | GROUP 24 650 CCA |

NOTES: (1) Battery is not included.

SHIPPING

| | |
|-----------------------------|------------------|
| SHIP DIMENSIONS (L x W x H) | 117" x 48" x 65" |
| SHIP WEIGHT | 2500 LBS |
| FREIGHT CLASS | 70 |

NOTES: Shipping dimensions are for an enclosed unit.

OPTIONAL ACCESSORIES

| |
|--------------------------------|
| GENERATOR STRIP HEATER |
| AUTOMATIC TRANSFER SWITCH |
| PERMANENT MAGNET GENERATOR |
| VAPOR FUEL STRAINER |
| DSE8610 PARALLELING CONTROLLER |
| 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 |
| REMOTE DISPLAY PANEL | OPTIONAL |
| DSE WEB NET | 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 |

