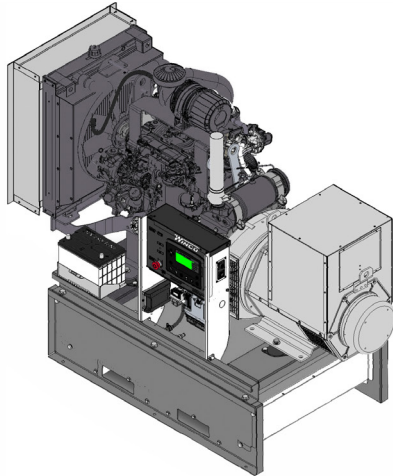


Rugged Design



New FPT Tier IV Engine

With DOC-PMCAT

- ✓ NO Urea
- ✓ NO Shutdowns for regens



3.4L Engine

We all know the saying that “there is no replacement for displacement.” A lot of engine manufacturers are pushing really small engines into this range for TIER IV final. We think a little more engine is key for long life and quick responses to load changes

Cummins Industrial Genend

With automatic voltage regulation

Electronic Common Rail

Excellent frequency control and load pick-up

Radiator Ducting

Makes your installation easier and helps reduce air recirculation

Fork Pockets

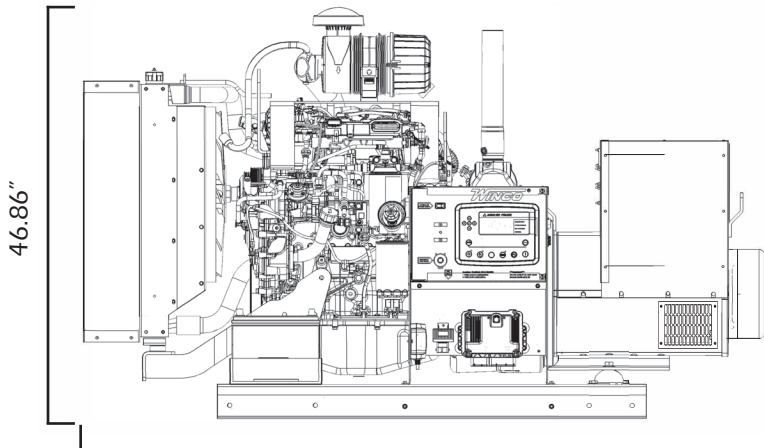
Convenient fork pockets integrated into the unit, giving you the ability to lift from all directions

Battery Charger

Smart trickle battery charger standard

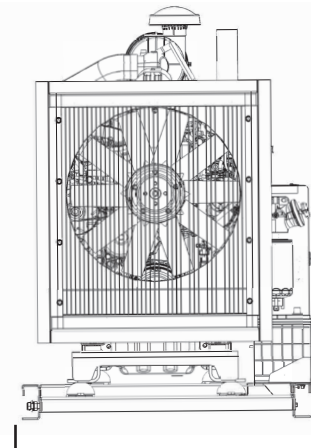
DSE7310 Controller

Digital controller allows for remote start, engine code reader, with advanced metering, safeties and shutdowns to protect your investment



46.86"

75.07"



38.04"

Tank adds 15" to the height

ELECTRICAL

| VOLTS | POWER FACTOR | STANDBY | | | PRIME | | |
|--------------|--------------|---------|--------|------|--------|--------|------|
| | | WATTS | KVA | AMPS | WATTS | KVA | AMPS |
| 120/240 1-PH | 1.0 | 45,000 | 45,000 | 187 | 40,500 | 40,500 | 168 |
| 120/208 3-PH | 0.8 | 49,000 | 61,250 | 170 | 44,100 | 55,125 | 153 |
| 120/240 3-PH | 0.8 | 49,000 | 61,250 | 147 | 44,100 | 55,125 | 132 |
| 277/480 3-PH | 0.8 | 49,000 | 61,250 | 73 | 44,100 | 55,125 | 66 |
| 346/600 3-PH | 0.8 | 49,000 | 61,250 | 59 | 44,100 | 55,125 | 53 |

NOTES: (1) Recommended breaker sizes are 100 to 125% of generator output.

ENGINE

| | |
|--------------------------------|----------------|
| ENGINE BRAND | FPT |
| ENGINE MODEL | F5 C |
| TIER | IV FINAL |
| ENGINE STARTER | 12V ELECTRIC |
| ENGINE SPEED | 1800 RPM |
| ENGINE CYLINDERS | 4 |
| ENGINE HP | 74 |
| FREQUENCY | 60 HZ |
| ALTERNATOR | 95 AMPS 12V |
| FLYWHEEL | 11 1/2" |
| ROTATION | CCW |
| ASPIRATION | TURBOCHARGED |
| COOLANT | 5.1 GAL |
| BORE/STROKE | 99 mm x 110 mm |
| DISPLACEMENT | 3.4 L |
| RECOMMENDED OIL ⁽²⁾ | 10W-40 SAE |
| OIL CAPACITY | 10 QT |
| INJECTION PUMP | BOSCH CP4.1 |
| GOVERNOR | ELECTRONIC |
| COMPRESSION RATIO | 17:1 |
| FAN TYPE | PUSHER |
| INTAKE AIR CONSUMPTION | 139 CFM |
| RADIATOR COOLING AIR | 6,865 CFM |
| EXHAUST FLOW | -- |
| EXHAUST OUTLET SIZE | 2.5" |
| STARTING AIDES | GLOW PLUGS |
| STARTING TEMP NATURAL W/ AIDES | -13° F |
| STARTING TEMP W/BLOCK HEATER | -40° 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. (3) Battery not included.

DE50

| | |
|------------------------------|-------------------|
| MOTOR STARTING (CODE G) | 20 HP |
| DBA @ 7 METERS | -- |
| TOTAL HARMONIC DISTORTION | < 5% |
| MAIN CIRCUIT BREAKER | CUSTOMER SUPPLIED |
| BONDED NEUTRAL | YES |
| FORK LIFT POCKETS | STANDARD |
| ASSEMBLED IN | USA |
| EPA APPROVED | TIER IV FINAL |
| CARB APPROVED | TIER IV FINAL |
| CSA APPROVED | NO |
| UNIT WARRANTY ⁽¹⁾ | 1 YEAR/2000 HRS |

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

GENERATOR END

| | |
|--------------------|---------------------------|
| WINDING | 12 LEAD |
| WINDING NUMBER | 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 | 89 |
| INSULATION | CLASS H |
| INGRESS PROTECTION | IP23 |

DERATES

| | |
|---------------------|-------------|
| ABOVE SEA LEVEL | |
| 6,561 FT | 10% |
| 9,842 FT | 20% |
| COOLANT TEMPERATURE | |
| >104°F | 3% PER 10°F |

FUEL

| | |
|-----------------------------------|------------------------|
| TYPE | ASTM D975 NO-2D DIESEL |
| OPTIONAL FUEL TANK | 54 GAL |
| CONTAINMENT | 110% |
| TANK DIMENSIONS | 52.52" x 33.5" x 15" |
| FULL LOAD RUN TIME ⁽¹⁾ | 15 HOURS |
| FUEL CONSUMPTION | GAL/HR |
| 100% | 4.16 |
| 80% | 3.35 |
| 50% | 2.20 |
| 25% | 1.33 |

NOTES: (1) Run time is estimated using the optional 54 gallon fuel tank.

SHIPPING

| | |
|---------------------------------|-----------------|
| SHIPPING DIMENSIONS (L x W x H) | 89" x 45" x 72" |
| SHIP WEIGHT | 2,000 LBS |
| FREIGHT CLASS | 70 |

OPTIONAL ACCESSORIES

| |
|-----------------------|
| BATTERY |
| MIMIC PANEL |
| REMOTE MONITORING |
| SOLAR BATTERY CHARGER |

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 | DISABLED |
| KW, KVA, KVARH 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 |