

# WINGCO<sup>®</sup> GENERATORS



## 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.



## 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

# DE4040F4

36,000 WATTS

## Rugged Design

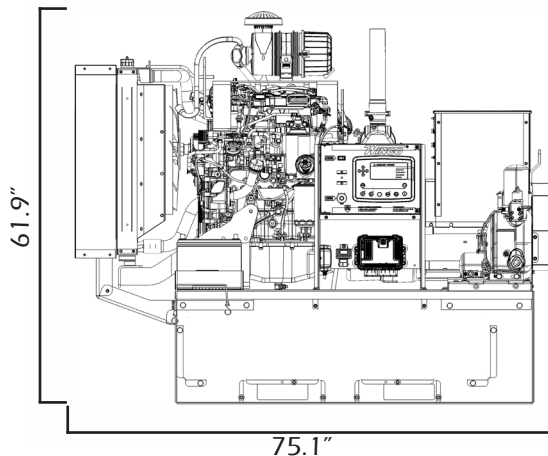


## New FPT Tier IV Engine

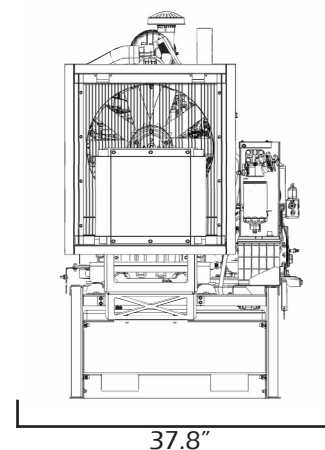
With DOC-PMCAT

✓ NO Urea

✓ NO Shutdowns for regens



Shown with tank



# SPECIFICATIONS

## ELECTRICAL

VOLTS	POWER FACTOR	STANDBY			PRIME		
		WATTS	KVA	AMPS	WATTS	KVA	AMPS
120/240 1-PH <sup>(1)</sup>	1.0	40,000	40,000	166	40,000	40,000	166
120/208 3-PH	0.8	40,000	50,000	139	40,000	50,000	139
120/240 3-PH	0.8	40,000	50,000	120	40,000	50,000	120
277/480 3-PH	0.8	40,000	50,000	60	40,000	50,000	60
346/600 3-PH	0.8	40,000	50,000	48	40,000	50,000	48

NOTES: (1) Specifications for 4-lead generator end. 12-lead reconnectable generator end will produce 33,000 watts single phase (2) 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/TYPE	3.4 L
LOW OIL PROTECTION	STANDARD
RECOMMENDED OIL <sup>(2)</sup>	5W-40 SAE
OIL CAPACITY	10 QT
INJECTION PUMP	BOSCH CP4.1
GOVERNOR	ELECTRONIC
COMPRESSION RATIO	17:1
FAN TYPE	PUSHER
INTAKE AIR COMBUSTION	139 CFM
RADIATOR COOLING AIR	6,865 CFM
EXHAUST FLOW	--
EXHAUST OUTLET SIZE	2.5"
STARTING AIDES	GLOW PLUGS
STARTING TEMP NATURAL W/ AIDES	5° F
STARTING TEMP W/ BLOCK HEATER	-13° 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.

## DE4040

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
BATTERY	INCLUDED
ASSEMBLED IN	USA
EPA APPROVED	TIER IV FINAL
CARB APPROVED	TIER IV FINAL
TÜV CERTIFICATION <sup>(1)</sup>	UL2200 CSA
UNIT WARRANTY <sup>(2)</sup>	1 YEAR/2000 HRS

NOTES: (1) Units without composite fuel tanks conform to UL2200.

(2) For more generator warranty, see operator's manual.

## GENERATOR END

WINDING LEADS	
1-PHASE 06	4
3-PHASE 311	12
AVR	AS440 +/- 1%
TEMPERATURE RISE	125°/40°C
TYPE	REVOLVING FIELD
BRUSHLESS	YES
GENERATOR SPEED	1800 RPM
ROTOR	2/3 PITCH
WINDINGS	100% COPPER
STATOR WINDING	
06	SINGLE LAYER CONCENTRIC
311	DOUBLE LAYER CONCENTRIC
EFFICIENCY PEAK	89
COUPLING	DIRECT/FLEXIBLE DISC
BEARINGS	SINGLE (MAINTENANCE FREE)
TELEPHONE INTERFERENCE	TIF<50
INSULATION	CLASS H
INGRESS PROTECTION	IP23



# SPECIFICATIONS

## COMPRESSOR

BRAND	ROTORCOMP
MODEL	NK31 ROTARY
HP	10
OIL CAPACITY	3.17 QT
OIL TYPE	RS8000
OPERATION PRESSURE	125 PSI
FLOW	40 CFM
INTAKE PRESSURE	14.5 PSIA
MAX AMBIENT TEMPERATURE	115°F
COOLING SYSTEM	OIL TO AIR & AIR TO AIR
AIR SERVICE CONNECTION	3/4" NPT
MAX OUTLET TEMPERATURE	230°F
RELATIVE HUMIDITY	70%

NOTES: These units are set to operate at 40CFM @ 125PSI. See Operator's Manual for adjustments and maintenance schedule.

## FUEL

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

NOTES: (1) 54 gallon composite fuel tanks do not conform to UL2200.

(2) Run time is estimated using the optional 54 gallon fuel tank.

## 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

## SHIPPING

SHIPPING DIMENSIONS (L x W x H)	85" x 48" x 71"
SHIP WEIGHT	
WITHOUT TANK	2,150 LBS
WITH TANK	2,350 LBS
FREIGHT CLASS	70

## DERATES

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

## OPTIONAL ACCESSORIES

MIMIC PANEL
REMOTE MONITORING
SOLAR BATTERY CHARGER

### 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

Specifications are subject to change without notice.

