

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.



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

Stamford Industrial Genend

With automatic voltage regulation

Electronic Common Rail

Excellent frequency control and load pick-up

Fork Pockets

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

DSE7310 Controller

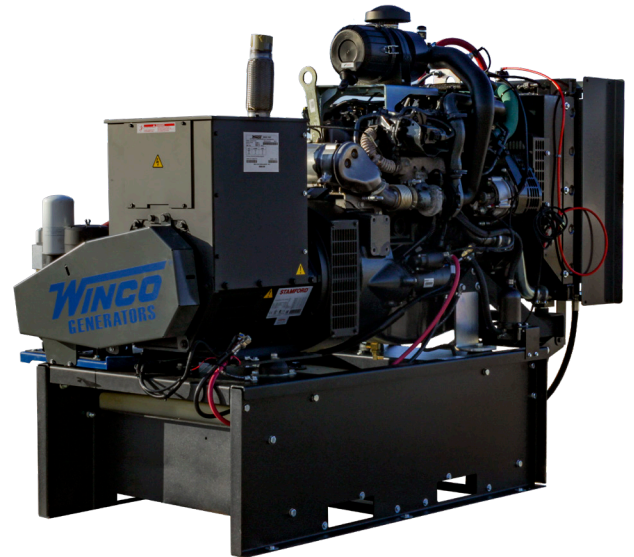
Digital controller allows for remote start, engine code reader, with advanced metering, safeties and shutdowns to protect your investment

DE4040F4

40,000 WATTS
40 CFM @ 125 PSI

GENERATION 4

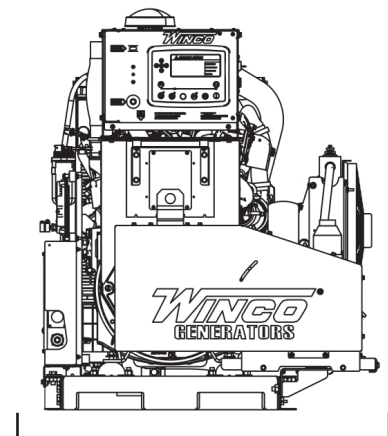
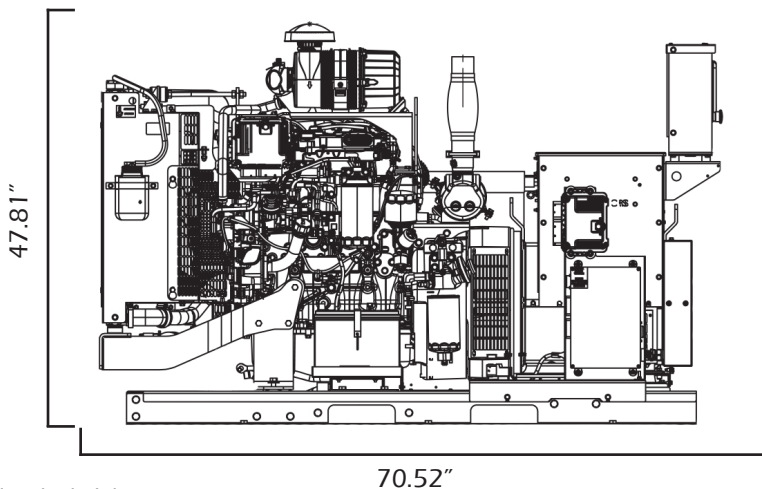
Rugged Design



New FPT Tier IV Engine

With DOC-PMCAT

- ✓ NO Urea
- ✓ NO Shutdowns for regens



Tank adds 18" to the height



SPECIFICATIONS

ELECTRICAL

VOLTS	POWER FACTOR	STANDBY			PRIME			RECOMMENDED CB ⁽²⁾
		WATTS	KVA	AMPS	WATTS	KVA	AMPS	
120/240 1-PH ⁽¹⁾	1.0	37,000	37,000	166	37,000	37,000	166	160 - 200
120/208 3-PH	0.8	40,000	50,000	139	40,000	50,000	139	135 - 175
120/240 3-PH	0.8	40,000	50,000	120	40,000	50,000	120	120 - 150
277/480 3-PH	0.8	40,000	50,000	60	40,000	50,000	60	60 - 75
346/600 3-PH	0.8	40,000	50,000	48	40,000	50,000	48	45 - 60

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 ⁽²⁾	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 ⁽³⁾	-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) Block heater 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
ASSEMBLED IN	USA
EPA APPROVED	TIER IV FINAL
CARB APPROVED	TIER IV FINAL
TÜV CERTIFICATION ⁽¹⁾	UL2200 CSA

UNIT WARRANTY⁽²⁾ 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

STANDARD COMPRESSOR

BRAND	CAS
MODEL	R3
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 @ 1.25PSI. See Operator's Manual for adjustments and maintenance schedule.

FUEL

TYPE	ASTM D975 NO-2D DIESEL
OPTIONAL FUEL TANK ⁽¹⁾	47 GAL
FULL LOAD RUN TIME ⁽²⁾	11 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

DERATES

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

SHIPPING

SHIPPING DIMENSIONS (L x W x H)	87" x 48" x 71"
SHIP WEIGHT	
WITHOUT TANK	1,525 lbs
WITH TANK	1,740 lbs
FREIGHT CLASS	70

OPTIONAL ACCESSORIES

BATTERY	
BLOCK HEATER	
TRICKLE BATTERY CHARGER	
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