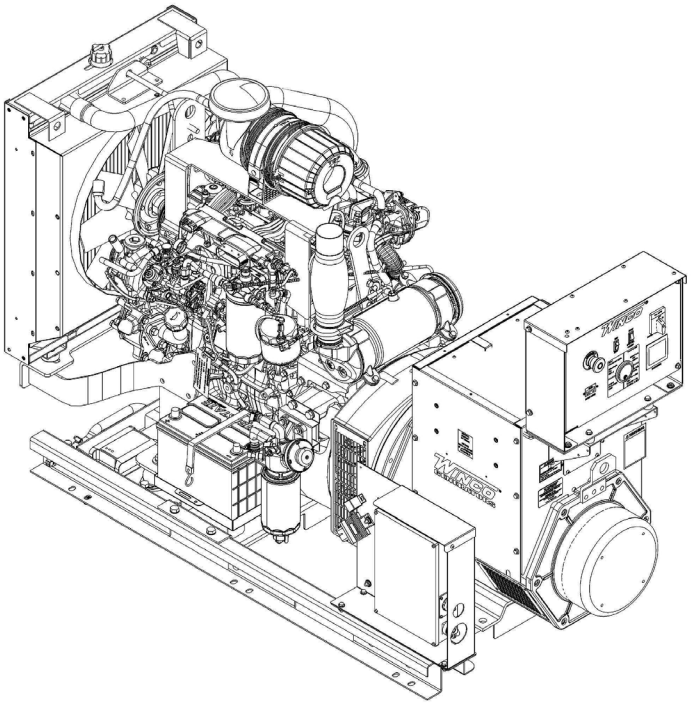
WINCO® GENERATORS
AN AMERICAN COMPANY
www.WINCOGEN.com

DE50F4



Designed, engineered, and manufactured in our facility located in Le Center, Minnesota, equipped with modern engineering, fabrication and assembly capabilities.

Full Load Tested
Every generator is 100% load tested in-house.

Key Start
The key start assembly can easily be rotated to three sides of the unit. Allowing the unit to be installed in a convenient position according to your specs.

FPT Tier IV Engine
We think a little more engine is key for long life and quick responses to load changes. There isn't Urea or a need to shutdown for regens with this FPT F5 series engine with DOC-PMCAT.

FPT TÜV SÜD STAMFORD®

		STANDBY			PRIME		
VOLTS	PF	WATTS	KVA	AMPS	WATTS	KVA	AMPS
120/240 1-PH	1.0	45,000	45.0	187	40,500	40.5	168
120/208 3-PH	0.8	47,000	60.0	166	43,200	54.0	150
120/240 3-PH	0.8	47,000	60.0	144	43,200	54.0	130
277/480 3-PH	0.8	47,000	60.0	72	43,200	54.0	65
346/600 3-PH	0.8	47,000	60.0	58	43,200	54.0	52

MOTOR STARTING (CODE G)	20 HP
DBA @ 7 METERS FULL LOAD	-
TOTAL HARMONIC DISTORTION	< 5%
MAIN CIRCUIT BREAKER	CUSTOMER SUPPLIED
120/240 1-PH	160-230A
120/208 3-PH	150-200A
120/240 3-PH	130-180A
277/480 3-PH	60-90A
346/600 3-PH	50-70A
BONDED NEUTRAL	YES

REQUIRED BATTERY(1)	GROUP 24 650 CCA
FORKLIFT POCKETS	STANDARD
ASSEMBLED IN	USA
EPA APPROVED	TIER IV
CARB APPROVED	TIER IV
TÜV CERTIFICATION	
CSA	YES
UL2200	YES
UNIT WARRANTY(2)	1 YEAR/2,000 HOURS

ENGINE

ENGINE BRAND	FPT
ENGINE MODEL	F34TE1W.S550
ENGINE STARTER	12V ELECTRIC
ENGINE SPEED	1800 RPM
ENGINE CYLINDERS	4
ENGINE HP	50
FREQUENCY	60 HZ
ALTERNATOR	95 AMPS, 12V
FLYWHEEL	11.5”
ROTATION	CCW
ASPIRATION	TURBOCHARGED
BORE/STROKE	99 mm x 110 mm
DISPLACEMENT/TYPE	3.4L
EXHAUST FLOW	0.41 CFM

EXHAUST OUTLET	4”
RECOMMENDED OIL[3]	5W-40 SAE
OIL CAPACITY	8.5 QT
INJECTION PUMP	BOSCH CP4.1
GOVERNOR	ELECTRONIC
COMPRESSION RATIO	16.5:1
FAN TYPE	PUSHER
INTAKE AIR CONSUMPTION	0.36 CFM
COOLANT CAPACITY	5.1 GAL
RADIATOR COOLING AIR	6,865 CFM
STARTING AIDES	GLOW PLUGS
START TEMP NATURAL W/ AIDES	5° F
START TEMP W/ BLOCK HEATER[4]	-13° F

FUEL

TYPE	ASTM D975 NO-2D DIESEL
OPTIONAL FUEL TANK[5]	47 GAL
CONTAINMENT	110%
TANK DIMENSIONS	70.5” x 30” x 18”
FULL LOAD RUN TIME[6]	14 HOURS

FUEL CONSUMPTION	GAL/HR
100%	4.16
75%	3.35
50%	2.20
25%	1.33

GENERATOR END

GENERATOR END BRAND	STAMFORD
GENERATOR END MODEL	UCI224E
WINDING	311 - 12 LEAD
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	89.6
INSULATION	CLASS H
INGRESS PROTECTION	IP23

DERATES

ABOVE SEA LEVEL	
6,561 FT	10%
9,842 FT	20%

AMBIENT TEMPERATURE	
>104°F	3% EVERY 10°F

ROCKER MANUAL START

ENGINE	
LOW OIL PRESSURE	SHUTDOWN
HIGH COOLANT TEMP	SHUTDOWN
OVER CRANK	SHUTDOWN
CAN ECU	DISPLAY/SHUTDOWN

GENSET	
VOLTAGE (L-L)	DISPLAY

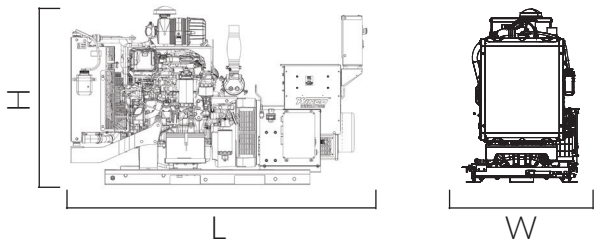
OPTIONAL DSE 7310 MKII CONTROLLER

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
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	YES
BATTERY VOLTAGE	YES
BATTERY OVER/UNDER VOLTAGE	YES
COMMUNICATIONS	
USB CONNECTABLE	YES
RS232/RS485	YES
NFPA ANNUNCIATOR	OPTIONAL
REMOTE DISPLAY PANEL	OPTIONAL
ETHERNET/MODEM	OPTIONAL
ADDITIONAL FEATURES	
AUDIBLE ALARM	YES
ENGINE EXERCISER	YES
MAINTENANCE INTERVAL TIMER	OPTIONAL
LOAD SHEDDING/DUMMY	OPTIONAL
CONFIGURABLE INPUTS	4 (EXPANDABLE)
CONFIGURABLE OUTPUTS	4 (EXPANDABLE)
EVENT LOG	250

SHIPPING

SHIPPING DIMENSIONS (L x W x H)	89” x 43” x 72”
SHIP WEIGHT (Without Tank)	1,957 LBS
FREIGHT CLASS	70



OPTIONAL ACCESSORIES

BATTERY	GROUP 24 650 CCA
BLOCK HEATER	1,800 WATTS, 15 AMP
BATTERY CHARGER	5 AMP
DIGITAL CONTROLLER	DSE 7310 MKII

MIMIC PANEL	DSE2510
REMOTE MONITORING	DSE2548
SOLAR BATTERY CHARGER	10 AMP

NOTES:
(1) Batteries are not included.
(2) For more warranty information, see operator’s manual.
(3) The recommended oil is for normal applications.
See operator’s manual for more oil recommendations.
(4) Block heater is not included.
(5) 47 Gallon composite tank does not conform to UL2200.
(6) Run time is estimated.
Specifications are subject to change without notice.

Sales: 507-357-6821
Service: 507-357-6831