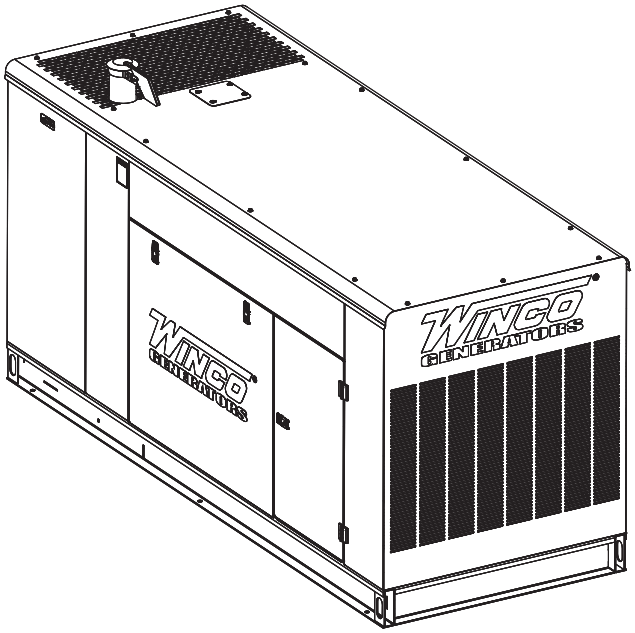
WINCO GENERATORS®
AN AMERICAN COMPANY
www.WINCOGEN.com

DR90F4



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.

Rugged Design
Engineered and built tough with powder coat painted galvanealed steel.

FPT Industrial Engine
FPT Industrial is a leading manufacturer of engines for industrial applications backed by an extensive service network.

FPT TÜV SÜD STAMFORD®

		PRIME			STANDBY			
VOLTS	POWER FACTOR	WATTS	KVA	AMPS	WATTS	KVA	AMPS	CIRCUIT BREAKER
120/240 1-PH	1.0	77,400	77.4	322	86,000	86	358	350A
120/208 3-PH	0.8	78,300	97	274	87,000	108	302	300A
120/240 3-PH	0.8	78,300	97	235	87,000	108	261	300A
277/480 3-PH	0.8	78,300	97	117	87,000	108	130	125A
346/600 3-PH	0.8	78,300	97	94	87,000	108	104	125A

MOTOR STARTING (CODE G)	40 HP
DBA @ 7 METERS FULL LOAD	74.5
TOTAL HARMONIC DISTORTION	< 5%
FLOATING NEUTRAL	YES
FORKLIFT POCKETS	NO
REQUIRED BATTERY(1)	GROUP 31 900 CCA
BATTERY CHARGER	5 AMP GUEST

ASSEMBLED IN	USA
EPA APPROVED	III
CARB APPROVED	III
TÜV CERTIFICATION	
CSA	YES
UL2200	YES
UNIT WARRANTY(2)	
STANDBY	2 YEAR/2,000 HOURS

ENGINE

ENGINE BRAND	FPT
ENGINE MODEL	N45 TM2X
TIER	III
ENGINE STARTER	12V ELECTRIC
ENGINE SPEED	1800 RPM
ENGINE CYLINDERS	4
ENGINE HP	127
FREQUENCY	60 HZ
ALTERNATOR	90 AMPS
FLYWHEEL	11.5"
ROTATION	CCW
ASPIRATION	TURBOCHARGED
LUBRICATION	FORCED
COOLANT	2.64 GAL
BORE/STROKE	104 mm x 132 mm

DISPLACEMENT/TYPE	4.5L
EXHAUST OUTLET	4"
LOW OIL PROTECTION	STANDARD
RECOMMENDED OIL[3]	5W-40 SAE
OIL CAPACITY	9 QT
INJECTION PUMP	STANADYNE TYPE
GOVERNOR	MECHANICAL
COMPRESSION RATIO	17.5:1
FAN TYPE	PUSHER
INTAKE AIR CONSUMPTION	306 CFM
RADIATOR COOLING AIR	6,360 CFM
EXHAUST FLOW	325 CFM
STARTING TEMP W/ BLOCK HEATER	 -20˚F

FUEL

TYPE	ASTM D975 NO-2D DIESEL
FUEL CONSUMPTION	GAL/HR
100%	6.94
75%	5.26
50%	3.57
25%	2.83

OPTIONAL FUEL TANK	
180 GAL UL142	108" x 42" x 17"
320 GAL UL142	108" x 42" x 29"

GENERATOR END

GENERATOR END BRAND	STAMFORD
GENERATOR END MODEL	VARIES
WINDING	
1-PH	06
3-PH	311
600V 3-PH	17
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	
1-PH 1.0 PF	84.9
3-PH 0.8 PF	90.2
INSULATION	CLASS H
INGRESS PROTECTION	IP23

BLOCK HEATER

VOLTS	120
WATTS	1,500
AMPS	15 AMPS

THERMOSTAT	
ON	100° F
OFF	120° F

DERATES

ABOVE SEA LEVEL	
3281-9843 FT	2% EVERY 1,641 FT
>9843 ft	6% EVERY 1,641 FT

AMBIENT TEMPERATURE	
>104˚F	2% PER 10˚F

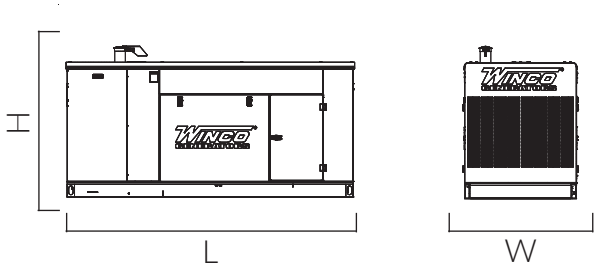
DSE 7310 MKII CONTROLLER

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) HOUSED	115.5" x 48" x 65"
SHIP WEIGHT HOUSED	3,875 LBS
FREIGHT CLASS	70



OPTIONAL ACCESSORIES

BATTERY	GROUP 31 900 CCA
10A BATTERY CHARGER UPGRADE	72036-020
BATTERY HEATER	350279-5
NFPA 110 LEVEL 1 UPGRADE	352030-1
AUTOMATIC TRANSFER SWITCH	ASCO 185 ASCO 300

DSE2510 REMOTE DISPLAY	358456-11
DSE2548 REMOTE ANNUNCIATOR	358456-1
DSE890 WEBNET	352014-4
MAINTENANCE KIT	16200-029

NOTES:
(1) Batteries 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.

Specifications are subject to change without notice.

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