

## An American Company We produce our products in our 200,000ft<sup>2</sup> facility

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.

#### Full Load Tested

Every generator is 100% load tested



#### DSE 7310 Controller

Provides immediate performance information



#### Coolant Heater

120V in-line Hotstart coolant heater with thermostat



#### Battery Charger

5 Amp, smart marine charger standard



#### TÜV Certified

The design, construction, and performance of our stationary generators conform to UL2200 & CSA standards

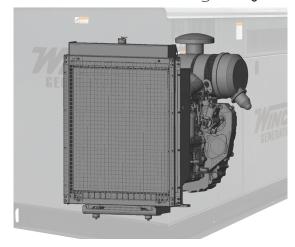


# DR90F4

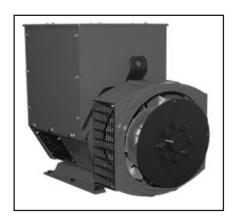
## Rugged Design of Galvanealed steel enclosure with powder coat paint



#### Industrial FPT Engine



#### Cummins Industrial Genend



## **SPECIFICATIONS**

#### **ELECTRICAL**

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

#### **ENGINE**

ENGINE BRAND	FPT
ENGINE MODEL	N45 TM2
TIER	III
ENGINE STARTER	12V ELECTRIC
ENGINE SPEED	1800 RPM
ENGINE CYLINDERS	4
STANDBY ENGINE HP	127
FREQUENCY	60 HZ
ALTERNATOR	90 AMPS
FLYWHEEL	11.5″
ROTATION	CCW
ASPIRATION	TURBOCHARGED
COOLANT	2.64 GAL
BORE/STROKE	104 mm x 132 mm
DISPLACEMENT	4.5 L
RECOMMENDED OIL <sup>(2)</sup>	5W-40 SAE
OIL CAPACITY	13.5 QT
INJECTION PUMP	STANADYNE TYPE
GOVERNOR	MECHANICAL
COMPRESSION RATIO	17.5:1
FAN TYPE	PUSHER
INTAKE AIR CONSUMPTION	306 CFM
RADIATOR COOLING AIR	6360 CFM
EXHAUST FLOW	325 CFM
EXHAUST OUTLET SIZE	4"
STARTING TEMP W/BLOCK HEATER	-20° F
NOTES: (1) Steady state frequency regulation (2) T	be recommonded all is for

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) Without pre-heating

#### **DBA @ 7 METERS**

FULLIOAD	74 5
TOLL LOND	7 т. Э

#### **DR90**

MOTOR STARTING (CODE G)	40 HP
TOTAL HARMONIC DISTORTION	< 5%
FLOATING NEUTRAL	YES
FORK LIFT POCKETS	NO
ASSEMBLED IN	USA
EPA APPROVED	TIER III (STANDBY)
CARB APPROVED	TIER III (STANDBY)
TÜV CERTIFICATION	UL2200
	CSA
UNIT WARRANTY <sup>(1)</sup>	
STANDBY	2 YEAR/2000 HRS

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

#### **GENERATOR END**

WINDING SINGLE PHASE THREE PHASE	4 LEAD 12 LEAD
WINDING NUMBER SINGLE PHASE THREE PHASE	06 311
VOLTAGE REGULATION	AVR +/- 1%
AVR TYPE	SX460
TEMPERATURE RISE	125/40° C
BRUSHLESS	YES
SPEED	1800 RPM
ROTOR	2/3 PITCH
WINDINGS	100% COPPER
STATOR WINDING 06 311	SINGLE LAYER CONCENTRIC DOUBLE LAYER CONCENTRIC
COUPLING	DIRECT/FLEXIBLE DISC
BEARINGS	SINGLE (MAINTENANCE FREE)
EFFICIENCY PEAK SINGLE PHASE 1.0 PF THREE PHASE 0.8 PF	84.9 90.2
INSULATION	CLASS H
INGRESS PROTECTION	IP23

## **SPECIFICATIONS**

#### **BLOCK HEATER**

VOLTS	120
WATTS	1,800
AMPS	15
THERMOSTAT	
ON	100° F
OFF	120° F

#### **DERATES**

ABOVE SEA LEVEL 3281- 9843 FT >9843 FT	3% EVERY 1641 FT 6% EVERY 1641 FT
AMBIENT TEMPERATURE >104°F	2% PER 10°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	L x W x H
180 GAL UL142	108" x 42" x 17"
320 GAL UL142	108" x 42" x 29"

#### **BATTERY**

DC SYSTEM	12V
BATTERY RACK/CABLE	INCLUDED
BATTERY CHARGER	5 AMP
REQUIRED BATTERY(1)	GROUP 31 900 CCA
NOTES: (1) Battery not included.	

#### **SHIPPING**

SHIPPING DIMENSIONS (L x W x H)	115.5" x 48" x 65"
SHIP WEIGHT	3,875 LBS
FREIGHT CLASS	70

NOTES: Shipping dimensions are for an enclosed unit.

#### **OPTIONAL ACCESSORIES**

BATTERY	
BATTERY CHARGER UPGRADE	
BATTERY HEATER	
RECEPTACLE PANEL	
MIMIC PANEL	
REMOTE MONITORING	
NFPA 110 LEVEL 1 UPGRADE	

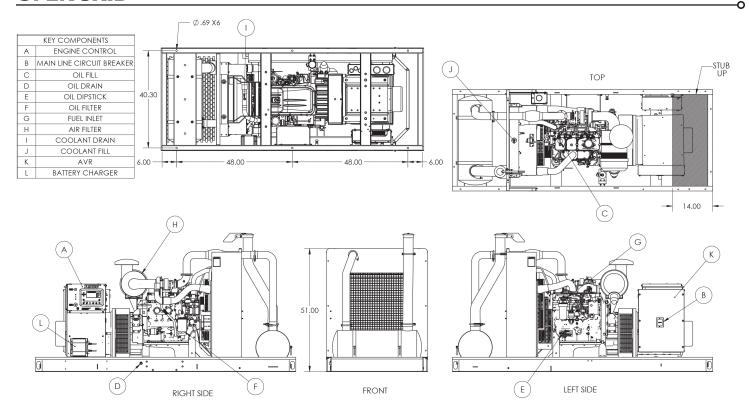
#### **DSE 7310 CONTROLLER**

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	FIELD ENABLED
KW, KVA, KVARH DISPLAY	YES
KWH, KVAH, KVARH DISPLAY	YES
GENERATOR PHASE SEQUENCE	OPTIONAL

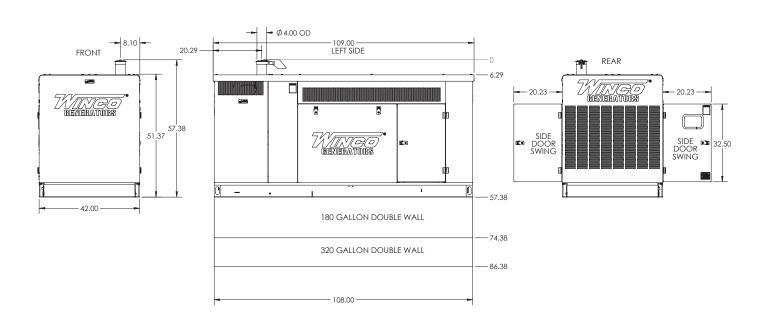
ADDITIONAL DISPLAYS/PROTECTIONS		
	EXTERNAL E-STOP	FIELD INSTALLED
	BATTERY VOLTAGE	YES
	BATTERY OVER/UNDER VOLTAGE	YES
	COMMUNICATIONS	
	USB CONNECTABLE	YES
	RS232/RS485	YES
	REMOTE DISPLAY PANEL	OPTIONAL
	DSE WEB NET	OPTIONAL
	ADDITIONAL FEATURES	
	AUDIBLE ALARM	YES
	ENGINE EXERCISER	DISABLED
	MAINTENANCE INTERVAL TIMER	DISABLED
	LOAD SHEDDING/DUMMY	DISABLED
	CONFIGURABLE INPUTS	4 (EXPANDABLE)
	CONFIGURABLE OUTPUTS	4 (EXPANDABLE)
	EVENT LOG	250

## **DRAWINGS**

#### **OPEN SKID**



#### **ENCLOSED**



Specifications are subject to change without notice.