

# 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.



## 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



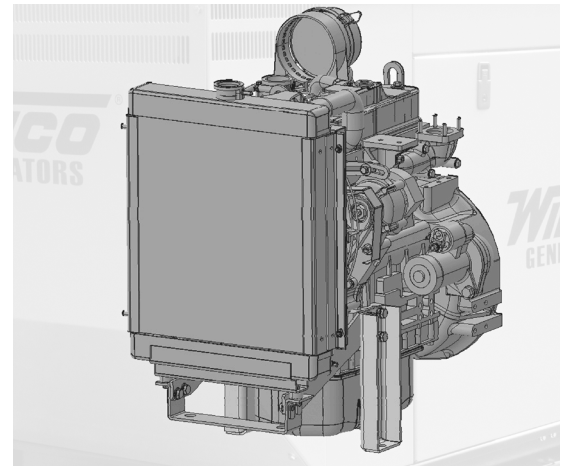
# DR1214 12,500 WATTS

## Rugged Design

Galvanealed steel enclosure with powder coat paint



## Industrial Isuzu Engine



## Cummins Industrial Genend.



# SPECIFICATIONS

## ELECTRICAL

VOLTS	POWER FACTOR	STANDBY			PRIME			CIRCUIT BREAKER
		WATTS	KVA	AMPS	WATTS	KVA	AMPS	
120/240 1-PH	1.0	12,500	12.5	52	11,250	11.25	46	60
120/208 3-PH	0.8	12,500	15.625	43	11,250	14.06	38	45
120/240 3-PH	0.8	12,500	15.625	37	11,250	14.06	33	45
277/480 3-PH	0.8	12,500	15.625	18	11,250	14.06	16	20
346/600 3-PH	0.8	12,500	15.625	15	11,250	14.06	13	20

## ENGINE

ENGINE BRAND	ISUZU
ENGINE MODEL	3CE1
TIER	IV FINAL
ENGINE STARTER	12V ELECTRIC
ENGINE SPEED	1800 RPM
ENGINE CYLINDERS	3
ENGINE HP	21.1
FREQUENCY	60 HZ
ALTERNATOR	40 AMPS 12V
FLYWHEEL	7.5"
ROTATION	CCW
ASPIRATION	NATURAL
COOLANT	2.0 L
BORE/STROKE	85 mm x 90 mm
DISPLACEMENT	1.6 L
RECOMMENDED OIL <sup>(2)</sup>	5W-30 SAE
OIL CAPACITY	7 QT
INJECTION PUMP	DISTRIBUTOR TYPE
GOVERNOR	MECHANICAL
COMPRESSION RATIO	20:1
FAN TYPE	PUSHER
INTAKE AIR CONSUMPTION	50.85 CFM
RADIATOR COOLING AIR	2200 CFM
EXHAUST FLOW	--
EXHAUST OUTLET SIZE	2.5"
STARTING AIDES	GLOW PLUGS
STARTING TEMP NATURAL W/ AIDES	0° F
STARTING TEMP W/BLOCK HEATER	-15° 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.

## DBA @ 7 METERS

FULL LOAD	74
-----------	----

## DR12

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

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

## GENERATOR END

WINDING	
SINGLE PHASE	4 LEAD
THREE PHASE	12 LEAD
WINDING NUMBER	
SINGLE PHASE	06
THREE PHASE	311
VOLTAGE REGULATION	AVR +/- 1%
AVR TYPE	AS540
TEMPERATURE RISE	125/40° C
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	
SINGLE PHASE 1.0 PF	82.9
THREE PHASE 0.8 PF	84.1
INSULATION	CLASS H
INGRESS PROTECTION	IP23

# SPECIFICATIONS

## BLOCK HEATER

VOLTS	120
WATTS	1,000
AMPS	8.4
THERMOSTAT	
ON	100° F
OFF	120° F

## DERATES

ABOVE SEA LEVEL	
5,500 FT	20%
COOLANT TEMPERATURE	
>104°F	3% PER 10°F

## FUEL

TYPE	ASTM D975 NO-2D DIESEL
FUEL CONSUMPTION	GAL/HR
100%	1.15
75%	0.96
50%	0.78
25%	0.58
OPTIONAL FUEL TANK	L x W x H
54 GAL COMPOSITE	63" x 34" x 10"
55 GAL UL142	63" x 34" x 13"
110 GAL UL142	63" x 34" x 23"
155 GAL UL142	63" x 34" x 33"

NOTES: (1) Tanks are double-walled, UL142 listed, except for the 54 gallon composite 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	FIELD ENABLED
KW, KVA, KVARH DISPLAY	YES
KWH, KVAH, KVARH DISPLAY	YES
GENERATOR PHASE SEQUENCE	OPTIONAL

## BATTERY

DC SYSTEM	12V
BATTERY RACK/CABLE	INCLUDED
BATTERY CHARGER	5 AMP
REQUIRED BATTERY <sup>(1)</sup>	GROUP 24 600 CCA

NOTES: (1) Battery not included.

## SHIPPING

SHIPPING DIMENSIONS (L x W x H)	75" x 34" x 45"
SHIP WEIGHT	1,790 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 LEVEL 1 UPGRADE
TRAILER W/ 54 GAL TANK

### ADDITIONAL DISPLAYS/PROTECTIONS

EXTERNAL E-STOP	FIELD INSTALLED
BATTERY VOLTAGE	YES
BATTERY OVER/UNDER VOLTAGE	YES

### COMMUNICATIONS

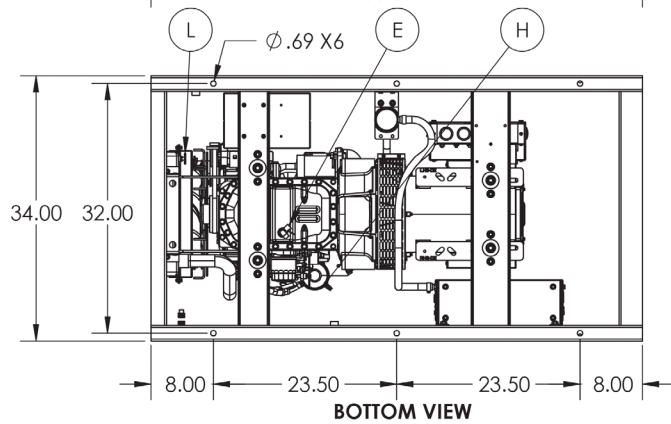
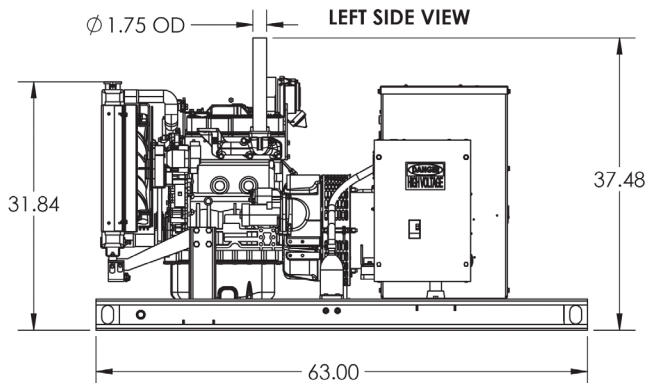
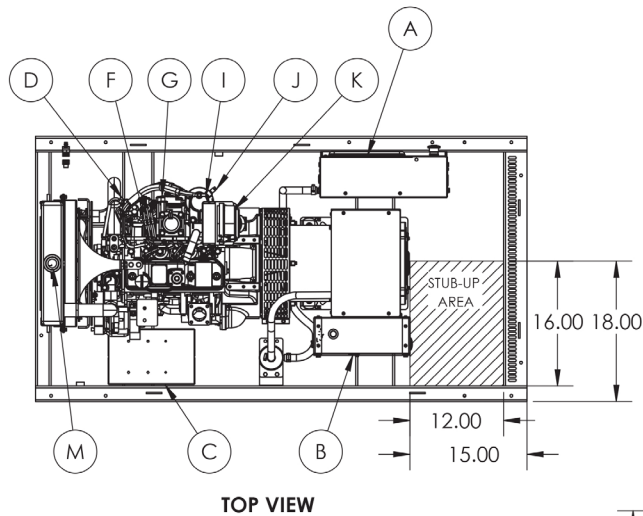
USB CONNECTABLE	YES
RS232/RS485	YES
REMOTE DISPLAY PANEL	OPTIONAL
DSE WEB NET	OPTIONAL

### 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

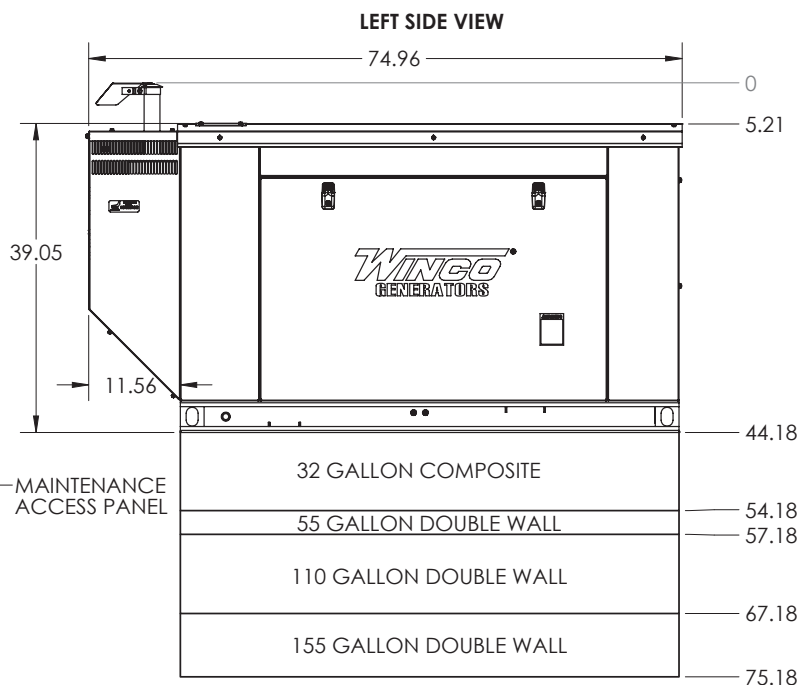
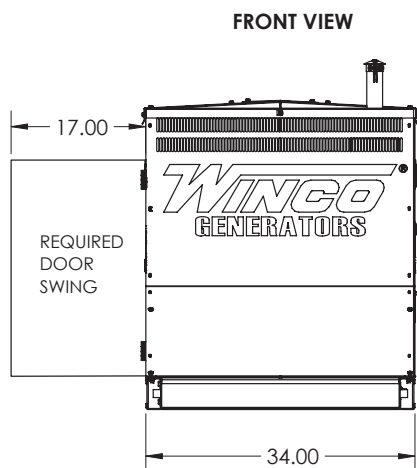
# DRAWINGS

## OPEN SKID



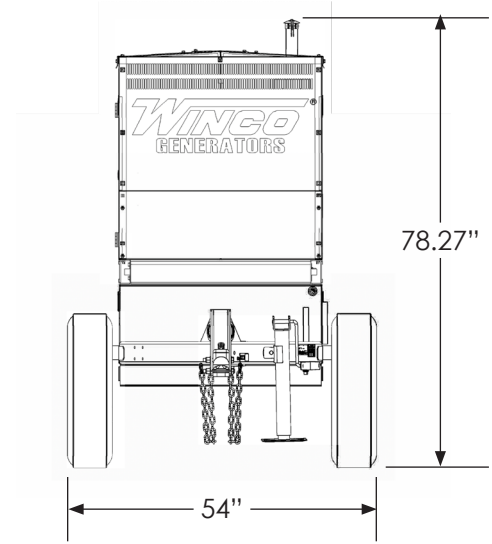
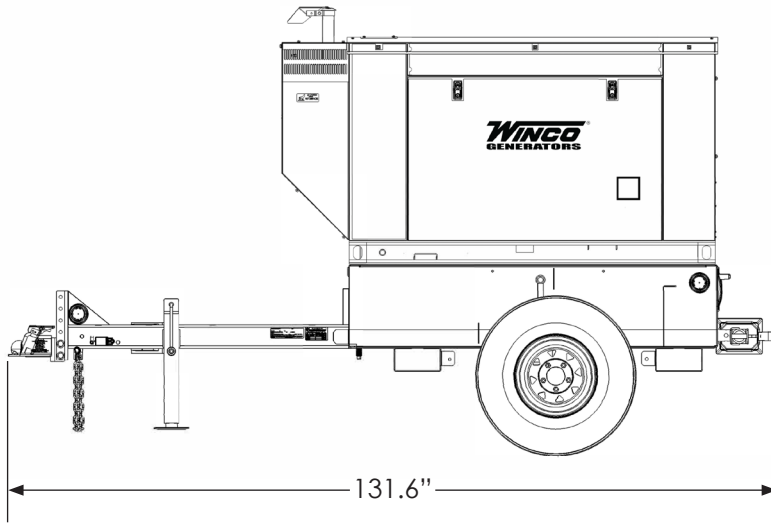
Key Components	
A	ENGINE CONTROL
B	MAIN LINE CIRCUIT BREAKER
C	START BATTERY
D	OIL FILL
E	OIL DRAIN
F	OIL DIPSTICK
G	OIL FILTER
H	FUEL FILTER
I	FUEL IN
J	FUEL RETURN
K	AIR FILTER
L	COOLANT DRAIN
M	COOLANT FILL

## ENCLOSED



# DRAWINGS

## TRAILER



Specifications are subject to change without notice.

