

# 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

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



# DR400V4-XX/1 DR400V4-XX/2 400,000 WATTS

Rugged Design  
Galvanealed steel enclosure  
with powder coat paint



Industrial Volvo Engine



Cummins Industrial Genend.



# SPECIFICATIONS

## ELECTRICAL

VOLTS	POWER FACTOR	STANDBY			PRIME			CIRCUIT BREAKER
		WATTS	KVA	AMPS	WATTS	KVA	AMPS	
120/208 3-PH	0.8	400,000	500	1,388	360,000	288	1,250	1300
120/240 3-PH	0.8	400,000	500	1,201	360,000	288	1,081	1200
277/480 3-PH	0.8	400,000	500	601	360,000	288	541	600
346/600 3-PH	0.8	400,000	500	481	360,000	288	433	600

## ENGINE

ENGINE BRAND	Volvo
ENGINE MODEL	TAD1353GE
TIER	III
ENGINE STARTER	24V ELECTRIC
ENGINE SPEED	1800 RPM
ENGINE CYLINDERS	6
ENGINE HP	585
FREQUENCY	60 HZ
ALTERNATOR	80 AMPS 24V
FLYWHEEL	14"
ROTATION	CCW
ASPIRATION	TURBOCHARGED
COOLANT	6 GAL
BORE/STROKE	131 mm x 158 mm
DISPLACEMENT	12.78L
RECOMMENDED OIL <sup>(1)</sup>	5W-40 SAE
OIL CAPACITY	9.5 GAL
INJECTION PUMP	ELECTRIC INJECTORS
GOVERNOR	ISOCHRONUS
COMPRESSION RATIO	18.1:1
FAN TYPE	PUSHER
INTAKE AIR CONSUMPTION	1102 CFM
RADIATOR COOLING AIR	--
EXHAUST FLOW	2790 CFM
EXHAUST OUTLET SIZE	5"
STARTING TEMP W/BLOCK HEATER	-13° F

NOTES: (1) The recommended oil is for normal applications. See operator's manual for the recommended oil for your needs.

## BLOCK HEATER

VOLTS	120
WATTS	3,000
AMPS	25
THERMOSTAT	
ON	100° F
OFF	120° F

## DR400

MOTOR STARTING (CODE G)	266 HP
TOTAL HARMONIC DISTORTION	< 5%
DBA @ 7 METERS	73
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	12 LEAD
WINDING NUMBER	
208/240/480V	311
600V	17
VOLTAGE REGULATION	AVR +/- 1%
AVR TYPE	MX341
PMG	STANDARD
TEMPERATURE RISE	125/40° C
BRUSHLESS	YES
SPEED	1800 RPM
ROTOR	2/3 PITCH
WINDINGS	100% COPPER
STATOR WINDING	DOUBLE LAYER LAP
COUPLING	DIRECT/FLEXIBLE DISC
BEARINGS	SINGLE (MAINTENANCE FREE)
EFFICIENCY PEAK	93.6
INSULATION	CLASS H
INGRESS PROTECTION	IP23



# SPECIFICATIONS

## DERATES

ABOVE SEA LEVEL	
3200 FT - 6500 FT	1.25% EVERY 1,500 FT
>6500 FT	7.5% EVERY 1,600 FT
MAX OPERATING TEMPERATURE	122°F W/O TEMPERATURE DERATE

## FUEL

TYPE	ASTM D975 NO-2D DIESEL
FUEL CONSUMPTION	GAL/HR
100%	29.1
75%	22.3
50%	15.3
25%	8.5
OPTIONAL FUEL TANK	L x W x H
1000 GAL - OPEN SKID	138 x 78 x 34
1340 GAL - HOUSED	236 x 78 x 24
3000 GAL - HOUSED	330 x 78 x 36

## 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

Specifications are subject to change without notice.



## BATTERY

DC SYSTEM	24V
BATTERY RACK/CABLE	INCLUDED
BATTERY CHARGER	8 AMP
REQUIRED BATTERIES <sup>(1)</sup>	GROUP 4D 1200 CCA

NOTES: (1) 2 batteries are required. Batteries are not included.

## DIMENSIONS

DIMENSIONS (L x W x H)	
HOUSED	236" x 78" x 99"
NARROW SKID	126" x 48" x 72"
WEIGHT	
OPEN	8,950 LBS
HOUSED	11,500 LBS
FREIGHT CLASS	70

NOTES: Shipping dimensions are for an enclosed unit.

## OPTIONAL ACCESSORIES

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

### 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