

WINCO[®] GENERATORS



An American Company

We produce our products in our 200,000ft² 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



DR450V4

450,000 WATTS

Rugged Design

Galvanized 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	450,000	562.5	1,562	405,000	506	1,406	1500
120/240 3-PH	0.8	450,000	562.5	1,351	405,000	506	1,216	1500
277/480 3-PH	0.8	450,000	562.5	676	405,000	506	609	700
346/600 3-PH	0.8	450,000	562.5	541	405,000	506	487	550

ENGINE

ENGINE BRAND	Volvo
ENGINE MODEL	TAD1650GE
TIER	II
ENGINE STARTER	24V ELECTRIC
ENGINE SPEED	1800 RPM
ENGINE CYLINDERS	6
ENGINE HP	677
FREQUENCY	60 HZ
ALTERNATOR	80 AMPS 24V
FLYWHEEL	14"
ROTATION	CCW
ASPIRATION	TURBOCHARGED
COOLANT	16.11 GAL
BORE/STROKE	144 mm x 165 mm
DISPLACEMENT	16.12L
RECOMMENDED OIL ⁽¹⁾	5W-40 SAE
OIL CAPACITY	12.7 GAL
INJECTION PUMP	DELPHI TYPE
GOVERNOR	ELECTRONIC
COMPRESSION RATIO	16.5:1
FAN TYPE	PUSHER
INTAKE AIR CONSUMPTION	1271 CFM
RADIATOR COOLING AIR	23,095 CFM
EXHAUST FLOW	3214 CFM
EXHAUST OUTLET SIZE	8"
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.

DBA @ 7 METERS

FULL LOAD	75
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DR450

MOTOR STARTING (CODE G)	300 HP
TOTAL HARMONIC DISTORTION	< 5%
FLOATING NEUTRAL	YES
FORK LIFT POCKETS	NO
ASSEMBLED IN	USA
EPA APPROVED	TIER II (STANDBY)
CARB APPROVED	TIER II (STANDBY)
TÜV CERTIFICATION	UL2200 CSA
UNIT WARRANTY ⁽¹⁾ STANDBY	2 YEAR/2000 HRS

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

GENERATOR END

WINDING	12 LEAD
WINDING NUMBER	311
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	94.7
INSULATION	CLASS H
INGRESS PROTECTION	IP23

SPECIFICATIONS

BLOCK HEATER

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

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

BATTERY

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

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

DIMENSIONS

DIMENSIONS (L x W x H)	236" x 78" x 92"
WEIGHT	
OPEN	8,950 LBS
HOUSED	11,300 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

Specifications are subject to change without notice.



ENCLOSED