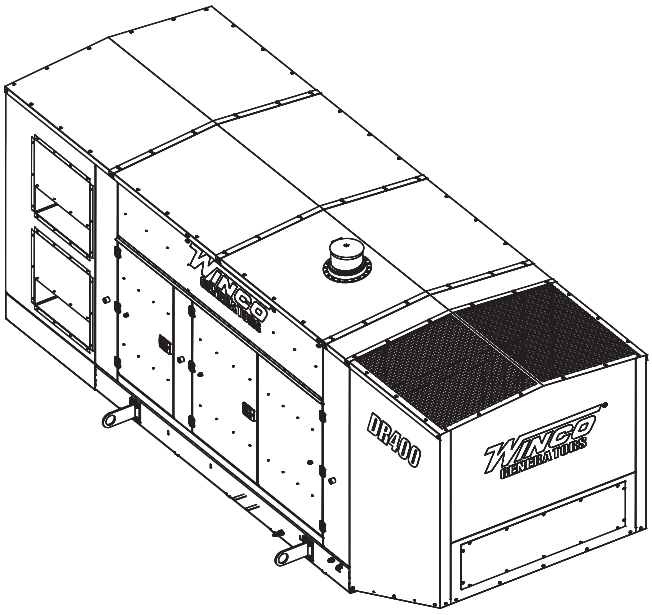
WINCO GENERATORS
AN AMERICAN COMPANY
www.WINCOGEN.com

DR450V4-XX/1
DR450V4-XX/2



Designed, engineered, and manufactured in our facility located in Le Center, Minnesota, equipped with modern engineering, fabrication and assembly capabilities.

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

Full Load Tested
Every generator is 100% load tested in-house.

Volvo Engine
Reliable and durable, Volvo engines for standby power operations will ensure peace of mind, day after day.

VOLVO PENTA TÜV SÜD STAMFORD®

		STANDBY			PRIME			
VOLTS	POWER FACTOR	WATTS	KVA	AMPS	WATTS	KVA	AMPS	CICUIT BREAKER
120/208 3-PH	0.8	450,000	562.5	1,562	405,000	506	1,406	1,500A
120/240 3-PH	0.8	450,000	562.5	1,351	405,000	506	1,216	1,500A
277/480 3-PH	0.8	450,000	562.5	676	405,000	506	609	700A
346/600 3-PH	0.8	450,000	562.5	541	405,000	506	487	550A

MOTOR STARTING (CODE G)	300 HP
DBA @ 7 METERS FULL LOAD	75
TOTAL HARMONIC DISTORTION	< 5%
FLOATING NEUTRAL	YES
FORKLIFT POCKETS	NO
ASSEMBLED IN	USA

EPA APPROVED	TIER II (STANDBY)
CARB APPROVED	TIER II (STANDBY)
TÜV CERTIFICATION	
CSA	YES
UL2200	YES
UNIT WARRANTY(1)	
STANDBY	2 YEAR/2000 HRS

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/TYPE	16.12 L
RECOMMENDED OIL[2]	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	1,271 CFM
RADIATOR COOLING AIR	23,095 CFM
EXHAUST FLOW	3,214 CFM
EXHAUST OUTLET SIZE	8”
STARTING AIDES	-
STARTING TEMP W/BLOCK HEATER	-13° F

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”

GENERATOR END

GENERATOR END BRAND	STAMFORD
GENERATOR END MODEL	HCI534D
WINDING	
208V/240V/480V	311
600V	17
VOLTAGE REGULATION	AVR +/- 1%
AVR TYPE	MX341
TEMPERATURE RISE	125/40°C
TYPE	REVOLVING FIELD
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

DERATES

ABOVE SEA LEVEL	
> 3,200 FT - 6,500 FT	1.25% EVERY 1,500 FT
> 6,500 FT	7.5% EVERY 1,600 FT

MAX OPERATING TEMPERATURE	122° W/O TEMPERATURE DERATE

BLOCK HEATER

VOLTS	120
WATTS	3,000
AMPS	25

THERMOSTAT	
ON	100° F
OFF	120° F

BATTERY

DC SYSTEM	24V
BATTERY RACK/CABLE	INCLUDED
BATTERY CHARGER	5 AMP
REQUIRED BATTERIES(3)	GROUP 4D 1050 CCA

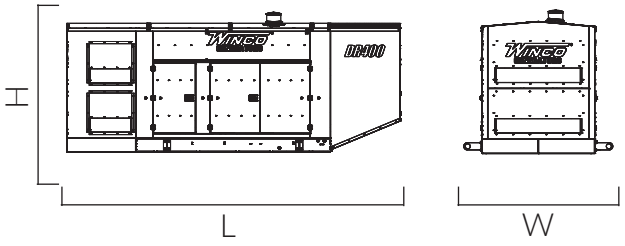
DSE 7310 MKII CONTROLLER

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	236" x 78" x 99"
NARROW SKID	126" x 48" x 72"
SHIP WEIGHT	
OPEN SKID	8,950 LBS
HOUSED	11,500 LBS
FREIGHT CLASS	70



OPTIONAL ACCESSORIES

BATTERIES(3) GROUP 4D 1050 CCA	80765-008
10A BATTERY CHARGER	72036-020
DSE2510 REMOTE DISPLAY	358456-11
DSE2548 REMOTE ANNUNCIATOR	358456-1
NFPA 110 LEVEL 1 UPGRADE	352030-1
DSE8610	352014-4
DSE890 WEBNET	352014-4
MAINTENANCE KIT	16200-037

NOTES:
(1) For more warranty information, see operator's manual.
(2) The recommended oil is for normal applications.
See operator's manual for more oil recommendations.
(3) 2 batteries are required. Batteries not included.
Specifications are subject to change without notice.

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