

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

Briggs & Stratton Commercial Engine
 Premium-grade Vanguard engines are application-engineered to power equipment that works for a living.

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

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

Sure Flow Cooling
 Three cooling intakes provide exceptional airflow and reduce heatsoak.



VOLTS	POWER FACTOR	STANDBY						PRIME					
		LP			NG			LP			NG		
		WATTS	KVA	AMPS	WATTS	KVA	AMPS	WATTS	KVA	AMPS	WATTS	KVA	AMPS
120/240 1-PH	1.0	11,000	11.0	45	9,720	9,720	40	9,360	9.36	39	8,160	8,160	34

MOTOR STARTING (CODE G)	3.5 HP
DBA @ 7 METERS	
NO LOAD	62
FULL LOAD	66
TOTAL HARMONIC DISTORTION	< 5%
MAIN CIRCUIT BREAKER	50A
RECEPTACLE	5-15R DUPLEX
REQUIRED BATTERY ⁽¹⁾	GROUP 26 500 CCA

BATTERY CHARGER	2 AMP
ASSEMBLED IN	USA
EPA APPROVED	YES
CARB APPROVED	NO
TÜV CSA CERTIFICATION	
CSA	YES
UL2200	YES
UNIT WARRANTY ⁽²⁾	2 YEAR/2,000 HOURS

ENGINE

ENGINE BRAND	BRIGGS & STRATTON
ENGINE MODEL	VANGUARD 389447-1215-E1
ENGINE STARTER	ELECTRIC
ENGINE SPEED	3600 RPM
ENGINE CYLINDERS	V-TWIN
ENGINE HP	23
FREQUENCY	60 HZ
LUBRICATION	FUEL-PRESSURE

BORE/STROKE	75 mm x 70 mm
DISPLACEMENT/TYPE	627 CC/OHV
EXHAUST	CRITICAL GRADE
LOW OIL PROTECTION	STANDARD
RECOMMENDED OIL ⁽³⁾	5W-30 SAE
OIL CAPACITY	1.5 QT
INJECTION SYSTEM	MAGNETRON ELECTRONIC
GOVERNOR	MECHANICAL
COMPRESSION RATIO	8.1:1

FUEL

INLET PRESSURE	4-6 OZ/7-11" WATER COLUMN
FUEL INLET SIZE	3/4"
FUEL CONSUMPTION LP	
100%	2.5 GAL/HR - 227,000 BTU/HR
75%	1.9 GAL/HR - 172,000 BTU/HR
50%	1.4 GAL/HR - 127,400 BTU/HR
25%	1.0 GAL/HR - 91,000 BTU/HR
0%	0.8 GAL/HR - 73,000 BTU/HR

FUEL CONSUMPTION NG	
100%	173 FT ³ /HR - 184,000 BTU/HR
75%	139 FT ³ /HR - 146,000 BTU/HR
50%	107 FT ³ /HR - 112,000 BTU/HR
25%	81 FT ³ /HR - 85,000 BTU/HR
0%	68 FT ³ /HR - 72,000 BTU/HR

GENERATOR END

GENERATOR END BRAND	MECC ALTE
GENERATOR END MODEL	S20F-160
PHASE	SINGLE
VOLTAGE REGULATION	CAPACITOR +/- 5%
TEMPERATURE RISE	125/40°C
BRUSHLESS	YES
SPEED	3600 RPM
ROTOR	2/3 PITCH

WINDINGS	100% COPPER
STATOR WINDING	DOUBLE LAYER CONCENTRIC
COUPLING	DIRECT/MOTOR SHAFT
BEARINGS	SINGLE (MAINTENANCE FREE)
EFFICIENCY PEAK	79.2%
INSULATION	CLASS H
INGRESS PROTECTION	IP23

DERATES

ABOVE SEA LEVEL	
3280-9842 FT	3% EVERY 1,640 FT

MAX OPERATING TEMPERATURE	122°F
AMBIENT TEMPERATURE >104°F	3% EVERY 10°F



DSE 3110 CONTROLLER

ENGINE DISPLAY/PROTECTION

LOW OIL PRESSURE	YES
HIGH COOLANT TEMP	YES
LOW COOLANT	YES
OVER/UNDER SPEED	YES

GENSET DISPLAY/PROTECTION

OVER/UNDER VOLTAGE	YES
UNDER FREQUENCY	YES

ADDITIONAL DISPLAYS/PROTECTIONS

BATTERY OVER/UNDER VOLTAGE	YES
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COMMUNICATIONS

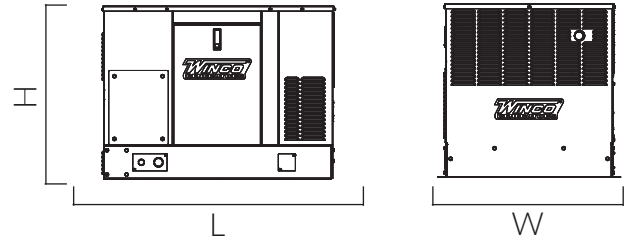
USB CONNECTABLE	YES
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ADDITIONAL FEATURES

CONFIGURABLE INPUTS	6
CONFIGURABLE OUTPUTS	4

SHIPPING

SHIPPING DIMENSIONS (L x W x H)	48" x 32" x 36"
SHIP WEIGHT	484 lbs
FREIGHT CLASS	70



OPTIONAL ACCESSORIES

BATTERY	GROUP 26 500 CCA
BATTERY HEATER	300484-3
AUTOMATIC TRANSFER SWITCH	ASCO 185 ASCO 300

VAPOR FUEL STRAINER	16243-000
OIL HEATER	300484-5
MAINTENANCE KIT	16200-058

NOTES:

- (1) Batteries not included.
- (2) For more warranty information, see operator's manual.
- (3) The recommended oil is for normal applications.
See operator's manual for more oil recommendations.

Specifications are subject to change without notice.



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

