

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.

### Briggs & Stratton Commercial Engine

Optimizes fuel injection and spark timing so the EFI engine delivers significant fuel savings, greater efficiency, easier starting and higher productivity.

**VANGUARD**

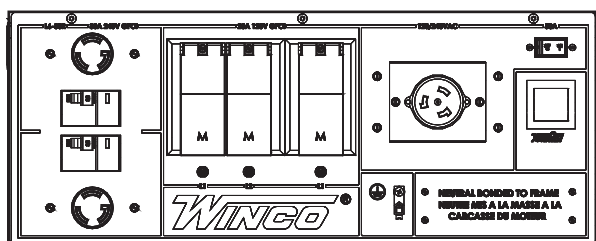


VOLTAGE	STARTING WATTS	STARTING AMPS @ 240V	RUNNING WATTS	RUNNING AMPS @ 120V	RUNNING AMPS @ 240V
120/240 1-PH	14,000	58.3	11,760	98	49

MOTOR STARTING (CODE G)	4 HP
DBA @ 7 METERS FULL LOAD	80
TOTAL HARMONIC DISTORTION	< 5%
MAIN CIRCUIT BREAKER	60A, 240V (GFCI)
BONDED NEUTRAL	YES
120V RECEPTACLES	(3) NEMA 5-20 20A (DUPLEX GFCI)
120/240V RECEPTACLES	(1) C6365 50A T-L

240V RECEPTACLES	(1) NEMA L6-30 30A (DUPLEX GFCI)
PROTECTIVE ROLL FRAME	1.25" DIA 14 GA STEEL
ASSEMBLED IN	USA
EPA APPROVED	YES
CARB APPROVED	NO
TÜV CERTIFICATION	YES
UNIT WARRANTY <sup>(1)</sup>	3 YEARS COMMERCIAL

## RECEPTACLE PANEL



# ENGINE

ENGINE BRAND	BRIGGS & STRATTON
ENGINE MODEL	VANGUARD 38E3
ENGINE STARTER	ELECTRIC
ENGINE SPEED	3600 RPM
ENGINE CYLINDERS	V-TWIN
ENGINE HP	23
FREQUENCY	60 HZ
IGNITION SYSTEM	MAGNETRON® ELECTRONIC

LUBRICATION	FULL-PRESSURE
BORE/STROKE	75.5 mm x 70.0 mm
DISPLACEMENT/TYPE	627CC/ OHV
LOW OIL PROTECTION	STANDARD
RECOMMENDED OIL <sup>(2)</sup>	5W-30 SAE
OIL CAPACITY	1.5 QT
COMPRESSION RATIO	8.3:1

# FUEL

FUEL TANK	15 GAL
FULL LOAD RUN TIME	8.3 HRS
FUEL GAUGE	YES

FUEL CONSUMPTION	
100%	1.80 GAL/HR
75%	1.40 GAL/HR
50%	1.10 GAL/HR
25%	0.66 GAL/HR

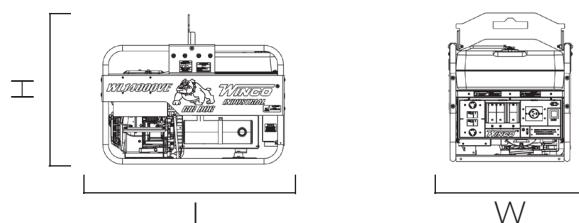
# GENERATOR END

GENERATOR END BRAND	MECC ALTE
GENERATOR END MODEL	S20F-230
PHASE	SINGLE
VOLTAGE REGULATION	CAPACITOR +/- 5%
TEMPERATURE RISE	125/40°C
BRUSH	YES
SPEED	3600 RPM

STATOR	2/3 PITCH
WINDINGS	100% COPPER
STATOR WINDING	DOUBLE LAYER CONCENTRIC
BEARINGS	SINGLE (MAINTENANCE FREE)
EFFICIENCY PEAK	82.1%
INSULATION	CLASS H
INGRESS PROTECTION	IP23

# SHIPPING

SHIPPING DIMENSIONS (L x W x H)	50" x 27" x 35"
SHIP WEIGHT	441 LBS
FREIGHT CLASS	70



# OPTIONAL ACCESSORIES

COVER	45" x 32" x 30"
MAINTENANCE KIT	16200-051
BATTERY	BCI GROUP U1 300 CCA
4-WHEEL DOLLY KIT	16199-043
50A PLUG	64493-000

## 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.

Specifications are subject to change without notice.



Sales: 507-357-6821

Service: 507-357-6831

