



Powered by



NEF45 SM2
4.5 Liter
Turbocharged

Electrical Output 65kW/80kVa

Voltage	Amperes	Cycles	Phase	kW	kVa	pf
120/240	225*	60	1	56	56	1.0
120/208	225	60	3	65	80	0.8
120/240	195	60	3	65	80	0.8
277/480	98	60	3	65	80	0.8

* Available amperage at terminal block connection - additional amperage available at receptacle panel for single phase output.

STANDARD FEATURES

- **IVECO 4.5 Liter 1800 RPM Engine** (Division of FIAT Motors)
 - Meets EPA / CARB Tier 3 Emissions
 - Mechanical Governor
 - Fuel/Water Separator
 - Oil Drain Extension with Valve
- **BASLER DGC-2020 Digital Controller** with Automatic Safety Shutdowns and Digital Readouts for Low Oil Pressure, High Water Temp, Engine Overcrank and Engine Overspeed, Low Fuel Level Shutdown, Battery Disconnect Switch
- **Brushless Alternator / Class H Insulation**
 - Standby Output: 65kW (80kVA)
 - Prime Output: 58.5kW (72kVA)
 - Motor Starting Capability: 25 h.p. Code G
 - Voltage Regulation: 1.5% / < 5% Total Harmonic Distortion
- **SWITCHABLE 4-Position Voltage Selector Switch** with Automatic Safety Shutdown and Safety Lock Out
 - AC Voltages - 3 Phase: 208, 220, 240, 416, 440, 460, 480V
 - AC Voltages - 1 Phase: 120, 139, 208, 220, 240V
 - Amps:
 - Single Phase 240V: 225A (at terminal block)
 - Three Phase 208V: 225A
 - Three Phase 240V: 195A
 - Three Phase 480V: 98A
- Illuminated Instrumentation Panel and Connection Box
- Receptacle Package:
 - 2-50amp 120/240V Twistlock Receptacles
 - 2-20amp 120V GFCI Duplex Receptacles
 - 1-Terminal Block for Full Connection with Safety Shut Off
- Shore Power Inlet for Easy Connection to Block Heater and Battery Charger
- Pre-wired for Remote Emergency Stop (Optional Button Available)
- Two Wire Remote Start Capability
- Selectable High or Low Voltage Mainline Circuit Breakers for Main Power Connection
- Circuit Breakers for Single Phase Receptacles
- 14-gauge Galvanneal Steel Sound Attenuated Enclosure with Critical Muffler
- Sound Level: 70 dB(A) @ 7 Meters, Full Load
- Durable Powder Coat Paint Finish / Stainless Steel Fasteners
- Large Lockable Doors for Maintenance Access
- Single Point Lifting Eye
- Full Fluid Containment System with Drains
- Lockable Fuel Access Door
- Six Bolts to Remove Generator Assembly from Trailer
- DOT Approved Trailer & Tank, 7,000 lb. Capacity, Electric Brakes with Break-Away Kit, Single Axle, Torsion Bar Suspension, Front Leveling Jack, Rear Stabilization Jacks, Running Lights, Lighted License Plate Bracket
- 110-gallon, 7-gauge Steel Fuel Tank
- Fuel Consumption:
 - Full Load.....4.64 gal/hr
 - 75% Load.....3.48 gal/hr
 - 50% Load.....2.41 gal/hr
- Run Time:
 - Full Load.....24 hours
 - 75% Load.....32 hours
 - 50% Load.....46 hours
- Removable and Adjustable Hitch
- 3" Pintle Hitch and 2 5/16" Ball Hitch both come Standard
- Large Front Lockable Storage Compartment
- Dimensions: Generator with Trailer - 150" x 66" x 83"
- Weight: Generator with Dry Fuel Tank and Trailer - 4950 lbs
- Warranty: Complete Unit - 1 Year; Engine - 2 Year Limited

EXPERIENCED DESIGN

- OVER 80 YEARS EXPERIENCE IN THE GENERATOR INDUSTRY
- DESIGNED FOR LONG LIFE TO MAXIMIZE RETURN ON INVESTMENT
- REACTIVE LOAD BANK TESTED / SINGLE STEP 100% LOAD TESTED
- “ORIGINATOR” OF THE MOBILE DIESEL GENERATOR



ENGINE SPECIFICATIONS

- DIVISION OF FIAT MOTORS INC.
- EPA CARB TIER 3 COMPLIANT
- COMPLETE SERVICE NETWORK
- EFFICIENT LOW FUEL CONSUMPTION DESIGN

MAKE.....	IVECO
MODEL.....	NEF45 SM2
TYPE.....	DIESEL
DIRECT INJECTION.....	MECHANICAL
SPEED GOVERNOR.....	MECHANICAL
CYLINDERS.....	4
TOTAL DISPLACEMENT.....	4.5L
BORE X STROKE.....	mm 104 X 132
ASPIRATION/COOLING.....	TURBOCHARGED/LIQUID
RADIATOR CAPACITY.....	2.25 GAL
TOTAL COOLING CAPACITY.....	5.0 GAL
HOUSING.....	SAE 3
FLYWHEEL (TEETH 125).....	11½ in.
ROTATION.....	CCW
LUBE OIL SPEC.....	SAE TYPE, API CF-CH4
LUBE OIL CONSUMPTION.....	< 0.1% OF FUEL
OIL & FILTER REPLACEMENT.....	600 HRS
TOTAL OIL CAPACITY.....	13.5 QUARTS
EXHAUST OUTLET SIZE @ MUFFLER.....	3.0"
ELECTRICAL SYSTEM (NEGATIVE GROUND).....	12 VDC
ALTERNATOR (BOSCH).....	90 AMPS
STARTER.....	BOSCH
BATTERY (NOT INCLUDED BCI 24).....	650 CCA

GENSET CONTROL

- BASLER DGC-2020 DIGITAL CONTROLLER
- GENERATOR PROTECTION AND METERING
- EVENT FAULT LOG RECORDING
- DEDICATED RELAYS FOR FUEL SOLENOIDS, GLOW PLUGS AND STARTER SOLENOID
- AUTOMATIC SAFETY SHUTDOWN
- DIGITAL READOUTS FOR LOW OIL PRESSURE, HIGH WATER TEMP, ENGINE OVERCRANK AND ENGINE OVERSPEED
- LOW FUEL LEVEL SHUTDOWN AND FUEL LEAK DETECTION ALARM

GENERATOR SPECIFICATIONS

- BRUSHLESS ROTATING FIELD FOR LONG LIFE AND LOW MAINTENANCE
- MEETS BS EN 60034, BS5000, VDE 0530
- NEMA MG1-32, ICE34, CSA C22.2-100, AS1359
- INCLUDES: HIGH EFFICIENCY SEMICONDUCTORS, RECTIFIER SURGE PROTECTION
- STANDARD OUTPUT: 65kW, 80kVA (3-Phase)
- PRIME OUTPUT: 58.5kW, 72kVA (3-Phase)
- AMPS: 1-PHASE 240V - 225A at terminal block, 233 amps total, including receptacle panel
3-PHASE 208V - 225A
3-PHASE 240V - 195A
3-PHASE 480V - 98A
- RATING.....(125/40°C) STANDBY
- TYPE.....4 POLE – REVOLVING FIELD
- SPEED/FREQUENCY.....1800 RPM/60HZ
- INSULATION SYSTEM.....CLASS H
- STATOR WINDINGS.....DOUBLE LAYER CONCENTRIC
- PITCH.....2/3
- WAVEFORM DISTORTION.....1.5%
- TELEPHONE INTERFERENCE.....<2.0%
- EFFICIENCY PEAK.....~92.5%
- COUPLING.....FLEXIBLE DISC
- BEARINGS (MAINTENANCE FREE).....1
- CONTROL.....(SX460 STANDARD) SELF EXCITED
- REGULATION.....+/- 1.5%
- SINGLE PHASE RATING.....1.0pf
- THREE PHASE RATING.....0.8pf

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