

One (1) CATERPILLAR POWER GENERATOR SET, MODEL G3412 – 350 kVA (Continuous Power Application), 415 Volts, 3 Phase, 4 Wires, 50 Hertz at 1500 RPM, with the following standard accessories included:

AIR INLET SYSTEM Air cleaner; single element canister type with service indicator

CONTROL PANELS EMCP 4.2 controls including: - Run / Auto / Stop Control - Speed Adjust - Voltage Adjust - Engine Cycle Crank - Emergency stop pushbutton EMCP 4.2 controller features: - 24-volt DC operation - Panel Lights - Environmental sealed front face - Dust Proof Enclosure - Generator Running Relay - Text alarm/event descriptions - True RMS AC metering, 3-phase, ©1% accuracy. Digital indication for: - RPM - DC volts - Operating hours - Oil pressure (psi, kPa or bar) - Coolant temperature - Volts (L-L & L-N), frequency (Hz) - Amps (per phase & average) - Power Factor (per phase & average) - kW (per phase, average & percent) - kVA (per phase, average & percent) - kVAr (per phase, average & percent) - kW-hr (total) - kVAr-hr (total) Warning/shutdown with common LED indication of shutdowns for: - Low oil pressure - High coolant temperature - Overspeed - Emergency stop - Failure to start (overcrank) - Low coolant temperature - Low coolant level Programmable protective relaying functions: - Generator phase sequence - Over/Under voltage (27/59) - Over/Under Frequency (81 o/u) - Reverse Power (kW) (32) - Reverse Reactive Power (kVAr) (32RV) - Overcurrent (50/51) Communications - Customer data link (Modbus RTU) - Accessory module data link - Serial annunciator module data link - 6 programmable digital inputs - 4 programmable relay outputs (Form A) - 2 programmable relay outputs (Form C) - 2 programmable digital outputs Compatible with the following optional modules: - Digital I/O module - Local Annunciator - Remote CAN annunciator - Remote serial annunciator - RTD module - Thermocouple module

COOLING SYSTEM Radiator with guard Coolant drain lines with valves; piped to edge of base Fan and belt guards Caterpillar Coolant Low coolant level sensor

EXHAUST SYSTEM Stainless steel exhaust flex (comes with two ship-loose weld flanges to be welded to flex tube)

FUEL SYSTEM Gas pressure regulator Low pressure fuel system (1.5 - 5.0 psi/10.3 - 34.5 kPa). Energize to Run (ETR) gas shutoff valve (GSOV) Fuel filter is required but not provided as standard: Customer may provide or see Optional Fuel Filters. Fuel system is sized for 31.5 to 47.2 MJ/Nm³ (800 to 1200 btu/scf).

GENERATORS AND GENERATOR ATTACHMENTS SR4B Generator - Self Excited Class H insulation, Class F temperature rise

GOVERNING SYSTEM 2301A speed control with EG3P actuator

IGNITION SYSTEM Digital Ignition System (PGSs 350, 450) Electronic Ignition System (EIS) (PGSs 375LE, 450LE)

LUBE SYSTEM Lubricating oil option Oil filter Oil drain line with valve; piped to edge of base Fumes disposal; piped to front of radiator

MOUNTING SYSTEM Wide, formed steel base Linear vibration isolators between base and engine-generator

STARTING/CHARGING SYSTEM 45 amp charging alternator 24 volt starting motor Batteries with racks and cables Battery disconnect switch

GENERAL Paint, Caterpillar yellow

ADDITIONAL EQUIPMENT INCLUDED:

*Battery Charger 5A

*Lead Acid Batteries

*3 Poles 1250A Circuit Breaker

*Industrial Muffler 10dB

*Alternator Heater