

WSP220-R

WANCO SILENT POWER DIESEL GENERATOR

ENGINE

- Perkins 1106D-E70TTAG4 diesel engine
 - Prime - 200kVA / 160kW @1800 RPN
 - Standby – 220kVA / 176kW @ 1800 R
 - 4 Stroke Direct Injection 7.0 L Turbo
 - EPA Tier 3 SRE
- 10 gauge steel double wall fuel tank
 - 306 gal. (1158 L) capacity
 - 24.0 hr. run time - 100% load
 - 29.90 hr. run time - 75% load
 - 43.60 hr. run time - 50% load
 - 81.20 hr. run time - 25% load
 - Fuel tank built into skid of generator set
 - 120% Containment Basin
 - Fork lift Pockets
 - Compatible JP5,7,8, NATO F34, 63 and Jet A, A1 with appropriate fuel additive
- Oversized Cooling system
- Radiator and oil drains plumbed to exterior
- Vibration dampers isolate engine/generator from frame
- Perkins Factory dual stage air filter
- Air cleaner restriction indicator
- 60 Hz engine/generator - 50 hertz configuration available
- Mechanical isochronous governing
- Standard Block Heater Level 1 Cold Weather package for “Hot Start”



GENERATOR

- Upgraded ECO38-2SN/4 Mecc Alte “Maux PMG” 176kW at 105/40 temp rise
 - 300% motor starting capability
 - Brushless
 - 4 pole
 - Class H insulation
- Automatic Voltage Regulation +/- 0.5% with upgraded DER1 voltage regulator
 - Automatic coarse voltage adjustment
 - Integrated fine voltage adjustment

SYSTEM OUTPUTS

- 3 position selector switch with lock out
 - Single phase - 240/120 Volt Zig Zag 240/120 Volt, - 333 amps (PF =1)
 - Three phase - 480/277 Volt High Wye 480/277 Volt, - 241 amps prime
 - Three phase - 208/120 Volt Low Wye 208/120 Volt, - 555 amps prime

SYSTEM CONTROLS

- Deep Sea controller with heated display
 - Backlit LCD display is heated for cold weather application
 - -40°F to 185°F (-40°C to 85°C) operating temperature range
 - Remote communication (RS232 & RS485)
 - Can and Magnetic pick-up sensing
 - Load switching, Load shedding & dummy load outputs
 - Customizable status screen and Multiple date & Time scheduler
 - Remote display support up to 3 units
 - Main utility sensing
 - Configurable Event log
 - PLC Functionality
- Push buttons for easy operation
 - Manual or Auto Start
 - Engine Start
 - Engine Stop/Reset
 - Alarm Mute
 - Operator Screens
 - Home
 - Engine
 - Generator
 - Configurable display languages
 - Scrolling Arrows for Diagnostic information
 - Engine diagnostic display
 - Oil pressure
 - Engine temperature
 - Fuel level
 - Battery
 - After treatment inlet/outlet temperature
 - Ash/Soot levels
 - Generator diagnostic display
 - System kW output display
 - Line output & frequency display
 - True dual mutual standby with load balancing timer
- Alarms
 - Warning
 - Shutdown
 - Electrical trip
 - Engine
 - Alarm List - warnings/shutdowns; 250 event history log - date/time stamp
 - Charge Alternator failure alarm
 - kW and kVA overload protection
 - Unbalanced load protection
 - Fuel level: warning - 10%

- Over speed protection: shutdown - 115%
- Battery voltage: over - 16VDC; under – 9VDC
- Generator over voltage:

	480 mode	208 mode	240 mode
over V warn	108.0%	120.2%	108.3%
over V trip	110.0%	125.0%	110.0%

- Generator under voltage:

	480 mode	208 mode	240 mode
under V warn	77.0%	89.0%	89.1%
under V trip	75.0%	86.0%	86.0%

- Generator over frequency: warning - 105%; electrical trip - 115%
- Generator under frequency: warning - 95%; electrical trip - 85%
- 9 Inputs/ 8 outputs
- Multiple date & time scheduler
- Status
- Configuration of controller, firmware and connections
 - DSE configuration Suite PC software
 - Remote Monitoring Capabilities
 - MODBus, USB, Ethernet connections

ELECTRICAL CONTROLS

- Lockable control box door with diagnostics window
- Lockable lug box and Cam-Lock distribution panels
 - Trips main breaker when door is opened
 - Output ground connection lug inside above cam locks
 - ABB Main breaker with shunt trip
 - T6N 800 UL/CSA TMA 800-8000 3P FF
- Convenience receptacles with individual breakers operable in all modes
 - (2) 120V 20 Amp GFCI duplex outlets - (Nema 5-20R type)
 - (3) 125/250V 50 Amp, 3 pole, 4 wire twist lock (Non-Nema 6369)
- Single-Turn Voltage adjustment Rheostat
- 2 Deep cycle rated 950CCA Group 31 Sealed Lead Acid battery
- Lockable Battery Disconnect switch
- Panel lighting for breakers, lugs and selector switch
- Remote Start Capable
- Battery Charger and Shore Power plug
- 12VDC Fuel Pump Assures Rapid Starts

ENCLOSURE

- Heavy duty rental grade sound attenuated steel enclosure 12 gauge
 - UV & fade resistance, high temperature cured, white polyester powder coat paint
 - Insulated closed cell and baffled
 - 72 db(A) @ 23 ft. (7 m) - prime power
- Fully lockable enclosure including doors and fuel fill
- Stainless Steel Hardware
- Emergency stop switch located on outside of enclosure
- Central lifting point
- Operating/safety decals
- Document holder with operating manual including AC/DC wiring diagrams
- Drip edge rain guard over doors
- Weather protection covers over convenience receptacles and circuit breakers
- Stainless steel ball valve in containment drain.
- Mechanical fuel gauge near fuel fill port.

TRAILER

- DOT approved tail, side, brake, and directional lights – LED
- DOT approved conspicuity tape for enhanced visibility
- Transportation tie downs
- Safety chains with spring loaded safety hooks
- 3" (76.2mm) pintle hitch
- Dual 6000 lb. (2727 kg) axles
- 10,000 lb. (4545kg) tongue ag-jack with footplate
- ST225/75R15 Load Rating E tubeless wheels
- Standard 4 pin trailer connector
- License Plate bracket
- Electric brakes with brake away kit

WEIGHTS & DIMENSIONS

- Skid mounted
 - Dry weight: 7524 lbs. (3420 kg)
 - Operating weight: 9670 lbs. (4395 kg)
 - 141.3 x 47.24 x 81.67 (3.590 x 1.20 x 2.074 m)
- Trailer mounted
 - Dry weight: 9075 lbs. (4125 kg)
 - Operating weight: 11220 lbs. (5100 kg)
 - 208 x 81 x 87.75 in. (5.283 x 2.057 x 2.228 m)

WARRANTY

- 2 years/2,000 hours
 - Engines and alternators used in Wanco mobile generators carry a separate manufacturers (OEM) warranty (the "OEM Warranties"), unless otherwise expressly stated. All warranty claims for defects in material and/or workmanship on Wanco product OEM components should be directed through the OEM distributor/dealer network. OEM Warranties may vary and are subject to change. Wanco shall have no liability under OEM warranties