

WSP690 WANCO SILENT POWER DIESEL GENERATOR

500kW 60Hz 3-Phase Selectable Voltage Mobile Diesel Generator Set

ENGINE

Volvo TAD1672GE 16 Liter Diesel Engine

- EPA Tier 4 Final
- EPAK engine
- SCR-only
- Full electronic governing and fuel injection
- SAE J1939 diagnostic messaging via CANbus
- Oversized radiator for maximum cooling
- 24VDC charge alternator



ALTERNATOR

Stamford HCI534E Industrial grade alternator end

- Long life 1800rpm 4-pole single-bearing design
- 12-Leads for Selectable Voltages
- PMG excitation for 300% motor starting current
- Class H insulation
- Digital Automatic Voltage Regulator (AVR) with adjustable voltage
- <5% total harmonic distortion

MAIN CIRCUIT BREAKER

ABB Industrial 3-Pole Trip Unit with Shunt Trip Module.

Full Generator Set protection regardless of voltage mode.

VOLTAGE SELECTOR SWITCH for Instant Voltage Changes

- 480/277VAC 3-Phase 752 Amps per Phase Prime at .8 Power Factor
- 208/120VAC 3-Phase 1735 Amps per Phase Prime at .8 Power Factor

POWER CONNECTIONS

Protected by Main Circuit Breaker

- Leviton Series 16 400A Female Camlocks (L1, L2, L3, N, G) – 5 rows
- Copper Lugs for connecting stripped leads (L1, L2, L3, N, G) – 3 rows

Receptacles Protected by Individual Circuit Breakers

- 2x 120V 20 Amp GFCI duplex outlets (NEMA 5-20R)
- 3x 120/240V 50 Amp locking (CS6369)

Battery charger 12v 5 amps

SYSTEM CONTROLLER

Deep Sea Electronics DSE7320MkII Digital Controller

- Backlit and heated LCD display for 24/7 all-weather operation
- -40°F to 185°F (-40°C to 85°C) operating temperature
- Configurable event log
- Displays engine SPN/FMI diagnostic messaging
- Programmable PLC for adding custom functionality
- Manual or Automatic starting
- Operator-selectable information screens
- Programmable exercise scheduler

Engine Information

- Engine speed
- Fuel Level
- Battery / Charge Alternator voltage

Alternator Information

- kW and kVA power output
- Line currents
- Line-to-line and line-to-neutral voltages
- Frequency

Selectable Alarm Levels - Indication, Warning or Shutdown

- kW and kVA overload
- Overcurrent with programmable IDMT curve
- Short circuit with programmable IDMT curve
- Under/over voltage with programmable delay
- Under/over frequency with programmable delay
- Low/High fuel level
- Over speed
- Battery voltage
- Charge alternator failure

ENCLOSURE

Rental-grade galvanized steel with UV resistant polyester powder coat

- Sound attenuated with inlet baffles and fire-resistant acoustic foam
- Lockable control box door with diagnostics viewing window
- Key- or pad-lockable enclosure including fuel fill
- Vibration dampers isolate engine/generator from the enclosure
- External JIC10 fuel supply/return connections
- Internal/external fuel selector valve
- Fuel, oil and coolant drains plumbed to exterior
- Battery disconnect switch
- Emergency stop switch
- Rooftop lifting points
- Document holder with operating manual
- Voltage adjustment rheostat

SKID FUEL TANK

10ga double wall, 100% pressure tested before shipment

- 110% Containment with drain
- 600 gal. (2270 L) capacity
 - 23 hr. run time - 100% load
 - 31 hr. run time - 75% load
 - 46 hr. run time - 50% load
 - 92 hr. run time - 25% load
- 42 gal. (160 liter) DEF tank

TRAILER

Welded Steel C-Channel Construction

- Electric brakes with battery backup
- Three leaf spring axles
- DOT approved LED tail, side, brake, and directional lights
- Transportation tie downs
- Safety chains with spring loaded safety hooks
- 3 inch pintle ring
- Rugged A-frame hitch structure
- ST215/75R17.5 HC tubeless radial tires, load range H
- Standard 7-pin round connector
- Illuminated license plate bracket

WEIGHTS & DIMENSIONS

Skid Mounted

- Dry weight: 16,235 lbs. (7364 kg)
- Operating weight: 21,120 lbs. (9580 kg)
- 232 in x 89 in x 99 in (5.89 x 2.52 x 2.26 m)

Trailer Mounted

- Dry weight: 21,188 lbs. (9611 kg)
- Operating weight: 26,073 lbs. (11,827 kg)
- 292 in x 102 in x 131 in (7.42 x 2.60 x 3.32 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.