

Specifications

Engine

Diesel Engine Model	TK486V (Tier 2)
Fuel Type	No. 2 Diesel fuel under normal conditions No. 1 Diesel fuel is acceptable cold weather fuel
Oil Capacity Crankcase: Crankcase and Oil Filter:	12.3 litre (13 qt) 13.3 litre (14 qt) Fill to full mark on dipstick
Oil Type: Classification:	Multi-grade Petroleum Oil (Standard) Synthetic Oil (Optional) after first 500 hours API Type CI-4 or better ACEA Type E3 or better
Oil Viscosity: -30 C to +0 C (-22 F to +32 F): -25 C to +30 C (-13 F to +86 F): -25 C to +40 C (-13 F to +104 F): -15 C to +50 C (+5 F to +122 F):	SAE 5W-30 SAE 10W-30 SAE 10W-40 SAE 15W-40
Engine Oil Pressure	120 to 320 kPa (1.2 to 3.2 bar) (18 to 47psi)
Engine RPM: No Load:	1890 ± 10 RPM (High Speed) 1560 ± 5 RPM (Low Speed EcoPower Option only)
Valve Clearance	0.15 to 0.25 mm (0.006 to 0.010 in.)
Valve Setting Temperature	21 C (70 F) (Room Temperature)
Low Oil Pressure Switch (Normally Closed)	117 ± 21 kPa (1.17 ± 0.21 bar) (17 ± 3 psi)
High Coolant Temperature Switch*	Sensor*
Engine Thermostat	71 C (160 F)
Coolant System Capacity	9.5 liter (10 qt) with overflow tank
Engine Coolant Type	Texaco ELC (Extended Life Coolant) or equivalent: ELC red coolant, 50/50 antifreeze and water mixture, not to exceed 60/40
Radiator Cap Pressure	90 kPa (0.90 bar) (13 psi)
Fan/Water Pump Belt Tension New or Field Reset:	15 to 35 tension number on belt tension gauge, TK P/N 204-427; or 19 to 25 mm (0.75 to 1.0 in.) deflection with 3 to 4 Kg (6 to 9 lb) of force

* SG+ controller uses a sensor to provide engine high coolant temperature protection.

Generator

Type	460/230 Vac, 3 Phase, 60 Hz
Output Power	15 kw
Kilovolt-Amperes	18.75 kVA
RPM	1800 RPM

Electrical Control System

Controls	SG+ microprocessor controller
Voltage	12.5 Vdc (nominal)
Battery	12 volts, group C31, 925/950 Cold Cranking Amps at -18 C (0 F)
Fuse SI1	30 Amp
Fuse SI2	30 Amp
Fuse SI3	10 Amp

Electrical Components

NOTE: Disconnect components from unit circuit to check resistance.

	Current Draw (Amperes) at 12.5 Vdc	Resistance (Ohms)
Air Heater	89	0.14
Fuel Solenoid:		
Pull-in	35 to 45	0.2 to 0.3
Hold-in	0.5 to 1.0	24 to 29
Speed Solenoid (EcoPower Option only)	2.9	4.3
Starter Motor	400 (cranking) 140 (bench test)	

Controller Default Settings

Setting – Menu Location	Default Setting
Tank Size – Commands/System Setup	125
Date/Time – Commands/System Setup	Software Date
ID Number – Commands/System Setup	00000000
C/F Mode – Misc. Functions	F
LOP (Low Oil Pressure) Restart – Configuration	Off
DEL (Delayed) Coldstart – Configuration	On
HM1 (Hour Meter 1) Threshold – Configuration	0
HM2 (Hour Meter 2) Threshold – Configuration	0
ENG (Engine) Off Hours – Configuration	0
Factory Reset – Configuration	Off
APU Connected – Configuration	Off
Output Voltage – Configuration	460
Fuel Sensor – Configuration	Off
Fuel Level – Configuration	0
Crank Restarts – Configuration	3
Telematic – Configuration	Off

NOTE: The controller returns the Date/Time to the default setting when the battery is disconnected.