



Image for illustration purposes only

## KMGP770 GENSET

Generating Set Powered By  **Perkins**  **STAMFORD LEROY-SOMER™**

Output Ratings			Engine Technical Data				
Speed, Frequency/Volt	Prime Power	Standby Power	No. of Cylinders / Alignment	6 In Line			
1500rpm, 50 Hz / 400V	560KWe / 700KVA	616KWe / 770KVA	Cycle	4 Stroke			
<b>Genset Specifications</b>			Aspiration	Turbocharged			
Engine Make & Model			Injection	Direct			
Perkins 2806A-E18TTAG4			Bore, mm	145			
Origin			Stroke, mm	183			
USA			Displacement, l	18.1			
Alternator Type			Compression Ratio	14:1			
S5L1D-G4I			Starting	24V Electric			
Control Panel			Alternators, Amps	24V/50A			
Deep Sea - 7310 MKII			<b>Alternator Technical Data</b>				
Circuit Breaker Type			No. of Bearings	Single Bearing			
3Pole MCCB			Insulation System	Class H			
Tropical Cooling System			Excitation	Self Excited			
Digital Electronic Governor			Voltage Regulator	AS440			
Turbocharged			Protection	IP23			
Exceptional Power to Weight Ratio			Temperature Rise, °C	Prime 125/40 Standby 163/27			
<b>Fuel System (prime)</b>			Regulation	±1.0%			
50% 75% 100%			No. of Phases	3			
1500rpm, 50 Hz (L/hr)			No. of Poles	4			
<b>International Standards</b>							
Engine confirm to ISO 9001:2000, ISO 14001, ISO 10054, ISO 3046, BS 5514, DIN 6271. Alternator confirm to ISO 9001, ISO 14001, BS EN 60034, BS 5000, VDE 0530, NEMA MG1-32, IEC34 CSA C22.2-100, AS 1359, BS 6861 I, B En 61000-6-2:2001							
 							

### RATING GUIDELINES

**PRIME POWER** rating corresponds to ISO Standard Power for continuous operation. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchased power. A 10 % overload capability for governing purpose is available for this rating.

**MAXIMUM STANDBY POWER** rating corresponds to ISO Standard Fuel Stop Power. It is applicable for supplying standby electrical power at variable load in areas with well established electrical networks in the event of normal utility power failure. No overload capability is available for this rating.  $1 \text{ hp} = 1 \text{ kW} \times 1.36$

Dimensions (m) & Weights (kg)					
	L	W	H	Weight	Tank Capacity(L)
Open	3.78	1.70	2.27	4900	NA
Enclosed	5.23	2.02	3.05	7750	1135

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Performances	1500rpm
<b>Alternator Efficiency</b>	94.8%
<b>Engine Power</b>	
Prime Power, KWm(hp)	595(798)
Standby Power, KWm(hp)	657(881)
<b>Alternator</b>	
Prime Power, KWe	560

Control Panel Readings
• AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor.
• Low oil pressure, high water temperature, boost pressure and temperature, KW, KWh, KVA, KVAR, fuel consumption, relative load
• Oil pressure, water temperature, low oil level, high oil temperature
• DC alternator failure, over speed, over crank (Fail to start), over under voltage, over under current, any sensor failure
• Low coolant level - Configurable inputs&outputs
• Upgradable for GSM network connection, Signal SMS messages.

Lubrication System	1500rpm
<b>Oil Consumption (l/hr)</b>	-
<b>Oil Sump Capacity, l</b>	56
<b>Oil System Capacity Include Filters, l</b>	68

Optional Equipment
• <b>Engine</b>
-Coolant heater
-Oversize batteries
-Extra fuel pre-filter water separator
• <b>Alternator</b>
-Permanent magnet generator (PMG)
-Upgrade to 3 phase sensing AVR
-Qadrature droop kit
-Anti-condensation heater
-Air inlet filters
• <b>General</b>
-Upgrade to modular controller for paralleling
-Upgrade to 4 pole circuit breaker
-Battery charger
-Automatic transfer switch
-Fuel level switch High / Low for alarm and control
-Fuel transfer pump Automatic / Manual
-Residential grade silencer
-Weather protective and acoustic enclosure.

Intake & Exhaust System	1500rpm
<b>Air Flow Combustion at Standby Power, m³/min(cfm)</b>	57(2012.9)
<b>Heat Rejection Exhaust at Standby Power, KW</b>	572
<b>Exhaust Gas Temperature at Standby °C</b>	465
<b>Max Allowable Back Pressure in Exhaust Line, Kpa</b>	10
<b>Exhaust Gas Flow at Standby Power, m³/min(cfm)</b>	128(4520)

Spare Parts Kit (Optional)	Genuine - Perkins
Oil filter, full flow	(2)
Fuel filter	(1)
Fuel pre-filter water separator	(1)
Air filter	(1)
Fan belt set	(1)
Alternator belt set	(1)

General Information
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Documentation
Engine instruction book-English
Alternator manual- English
Wiring diagram

Warranty
One year with unlimited hours against all defects in material or workmanship, subject to the terms and conditions of the Manufacturer's warranty

Accessories
<b>Standard Silencer</b>
<b>Stainless Steel Flexible</b>
<b>Genuine Oil</b>

Anti-Vibration Pads
<b>Genuine Coolant 'Ready Mix'</b>

