

3 PHASE OUTPUTS			
GENERATOR SET MODEL	RATING	50HZ	
		380-415 V, 1500 rpm	
		KVA	KW
PM-600	PRIME	600	480
	STAND-BY	660	528



ALTERNATOR DATA	
Make	Leroy Somer
Model	TAL 047E
No. of bearings	1
Insulation Class	H
Total Harmonic Content	<3.5 % on load
Wires	6
Ingress Protection	IP23
Excitation System	SHUNT
Winding Pitch	2/3 (n°6)
AVR Model	R150
Overspeed	2250 mn ⁻¹
Voltage Regulation	±1%

POWERED BY:

* Ratings at 0.8 pf - Generator designed to operate in ambient temperatures up to 55 °C
* Generating Set photo is for reference only.

CONTROL PANEL	
Make	Deepsea
Model	DSE6110
This an Auto Start Control Module for single genset applications. It includes a backlit LCD display which clearly shows the status of the engine all the times. This module can either be programmed using the front panel or by using the DSE configuration suite PC software. Metering and Alarm indications:	
<ul style="list-style-type: none"> • Generator frequency • Underspeed, Overspeed • Generator volts (L-L, L-N) • Generator current • Engine oil pressure • Engine coolant temperature • Hours run counter • Battery volts • Fail to start/stop • Emergency stop • Failed to reach loading voltage/frequency • Charge fail 	

ENGINE / TECHNICAL DATA		
Engine Make	Perkins	
Engine Model	2806A-E18TAG1A	
Governing Type	ISO 8528-5 G2	
Cylinder Arrangement	Vertical in line	
Number of Cylinders	6	
Bore and Stroke	145 x 183	
Displacement/Cubic Capacity liters	18.1	
Induction System	Turbocharged and air to air charge cooled	
Cycle	4 stroke	
Combustion System	Direct Injection	
Compression Ratio	14.5:1	
Rotation	Anti-clockwise (viewed from flywheel)	
Cooling System	Water-cooled	
Frequency and Engine Speed	50Hz & 1500rpm	
	Prime	Standby
Gross Engine Power kW (hp)	540 (724)	593 (795)
FUEL CONSUMPTION (L/hr)		
	50%	61
	75%	90
	100%	123
Total Lubrication System Capacity [liters]	62	62
Total Coolant Capacity (inc. radiator) [ltrs]	61	61
Boost Pressure Ratio	2.81	3.07
Exhaust Temperature °C	568	571
Radiator Cooling Air Flow (Min): m³/sec	11.7	11.7
Combustion Air Flow: m³/min	34	36
Exhaust Gas Flow: m³/min	96	104
Fuel Tank Capacity	654	654

Dimension and Weight		
DIMENSION	OPEN	SILENT
Length (L)	3840 mm	5355 mm
Width (W)	1540 mm	1950 mm
Height (H)	2230 mm	2275 mm
Net Weight	4700 kg	5550 kg

RATING DEFINITIONS:

Prime Power - These ratings are applicable for supplying continuous power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Standby Power - These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these rating. When used at standby Rating the alternator will be peak continuous rated (according to ISO3046)

STANDARD SPECIFICATIONS

1. ENGINE

Perkins heavy duty diesel engine.

1.1 GOVERNOR

Electronic, compliance with ISO8528, Class G2.

2. COOLING RADIATOR

Radiator and cooling fan complete with protection guards, designed to cool the engine in ambient temperatures up to 55° C. The radiator is mounted on the base frame to avoid vibrations coming from the engine.

3. FILTRATION SYSTEM

Cartridge type air filter with security element. Cartridge fuel filter and full lube oil filter. All filters have replaceable elements.

4. EXHAUST SYSTEM

Heavy-duty industrial silencer.

5. ELECTRICAL SYSTEM

24 Volt system with battery charging alternator, Starter motor, High capacity maintenance free lead acid battery, battery rack mounted on the generating set base frame, and heavy duty interconnecting cables with terminations.

6. ALTERNATOR

Screen protected and drip-proof, self-exciting, self-regulating brush-less alternator. Four poles, STAR winding connection, suitable for tropical, humid and saline climates. H class insulation.

7. AUTOMATIC VOLTAGE REGULATOR (AVR)

Static electronic design voltage regulator. Steady voltage precision within + 1 % from no load to full load including cold and hot variations, at any Power factor between 0.8 and unity.

8. MOTOR STARTING

An overload capacity equivalent to between 160% to 300% (depending on alternator frame size) of full load impedance at zero power factor can be sustained for 10 seconds.

9. MOUNTING ARRANGEMENT

9.1 BASE FRAME

The complete generating set is mounted on heavy duty steel fabricated base frame which is anti rust coated.

9.2 COUPLING

Engine and alternator are directly coupled by means of SAE flange. The engine fly wheel is flexibly coupled to the alternator rotor.

9.3 ANTI VIBRATION MOUNTING PADS

Anti vibration pads are fitted between engine-alternator base frame ensuring complete vibration isolation of rotating assemblies.

10. FUEL SYSTEM

On Generating Sets up to 700 KVA, the baseframe design is incorporated with an integral fuel tank with a capacity of approx. 8 hours running at Full Load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and drain plug.

11. DOCUMENTATION

A full set of operation and maintenance manual are provided.

12. FACTORY TESTS

Generating set is subject to a strict load test before delivery. A test certificate can be provided as optional.

13. QUALITY STANDARDS

Generating set meets the following standards ISO 8528, IEC 34.1, CEI 2.3, VDE 0530, BS 4999-5000, NF51-100. Perkins is fully accredited ISO 9001 company.

14. WARRANTY

Generating set is guaranteed for a period of 12 months from date of commissioning or 18 months from date of shipment whichever ever occurs earlier. (check warranty statement for more details, as it may vary for different countries)

In line with our policy of continuous product development, we reserve right to change specification without notice

AVAILABLE OPTIONS & ACCESSORIES

We offer a range of optional features and accessories to tailor our generating sets to meet your needs.

OPTIONS

- Generator Set control and synchronizing panels
- Additional Protection alarms and shutdowns
- Water fuel separator
- Water jacket heater
- Battery charger

ACCESSORIES

- Genuine spare parts
- Fuel Tanks
- Manual and Automatic Transfer Switches

Distributed and Serviced by:c



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