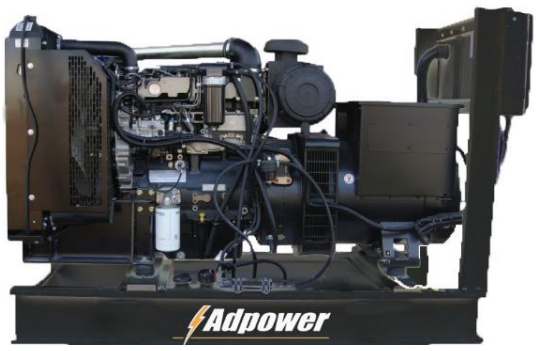
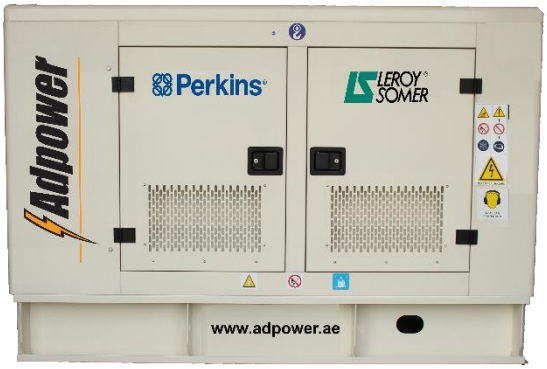
Adpower Generating Sets

PM60

3 PHASE OUTPUTS			
GENERATOR SET MODEL	RATING	50HZ	
		380-415 V, 1500 rpm	
		KVA	KW
PM-60	PRIME	60	48
	STAND-BY	66	52.8





POWERED BY: Perkins LEROY SOMER

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

ENGINE / TECHNICAL DATA

Engine Make		Perkins	
Engine Model		1103A-33TG2	
Governing Type		Mechanical	
Cylinder Arrangement		Vertical in line	
Number of Cylinders		3	
Bore and Stroke		105 x 127	
Displacement/Cubic Capacity liters		3.3	
Induction System		Turbocharged	
Cycle		4 stroke	
Combustion System		Direct Injection	
Compression Ratio		17:25:1	
Rotation		Anti-clockwise (viewed from flywheel)	
Cooling System		Water-cooled	
Frequency and Engine Speed		50Hz & 1500rpm	
		Prime	Standby
Gross Engine Power kW (hp)		55 (73.8)	60.5 (81.1)
FUEL CONSUMPTION (L/hr)	50%	7.2	-
	75%	10.4	-
	100%	13.9	15.4
Total Lubrication System Capacity [liters]		8.3	8.3
Total Coolant Capacity (inc. radiator) [ltrs]		10.2	10.2
Exhaust Temperature ºC		557	571
Radiator Cooling Air Flow (Min): m^3/sec		1.48	1.48
Combustion Air Flow: m^3/min		3.8	3.9
Exhaust Gas Flow: m^3/min		10.1	10.4
Fuel Tank Capacity		85	85

ALTERNATOR DATA

Make	Leroy Somer
Model	TAL 042H
No. of bearings	1
Insulation Class	H
Total Harmonic Content	at no load <3.5 % -on load <5%
Wires	6
Ingress Protection	IP23
Excitation System	SHUNT
Winding Pitch	2/3 (wdg3)
AVR Model	R120
Overspeed	2250 mn^{-1}
Voltage Regulation	± 1%

CONTROL PANEL

Make	Deepsea
Model	DSE6110/4610

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:

- 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

Dimension and Weight

DIMENSION	OPEN	SILENT
Length (L)	1650 mm	2300 mm
Width (W)	730 mm	1110 mm
Height (H)	1320 mm	1590 mm
Net Weight	960 kg	1335 kg

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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
   Mechanical, compliance with ISO8528, Class G2.
2. **COOLING RADIATOR**
   Radiator and cooling fan complete with protection guards, designed to cool the engine at high ambient temperatures. 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 exhaust silencer.
5. **ELECTRICAL SYSTEM**
   12 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)**
   The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at ±0.5%. Nominal adjustment by means of a trim pot incorporated on the AVR.
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 or18 months from date of shipment which 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:

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