



**SACCAL INDUSTRIES S.A.L.**  
Member of Saccal Holding

# PL 15

Engine Perkins, 403A-15G1

## STANDARD FEATURES

- Water cooled PERKINS diesel engine.
- Radiator with pressure cap and drain point
- Fully guarded engine-driven fan
- Fully welded steel skid base with lifting points
- Heavy duty rubber anti-vibration mountings
- 12V starter batteries and connecting cables
- Separate engine-driven battery charging alternator
- Spin on oil and fuel filters and dry type air filter element



Voltage	Standby Power KVA	Prime Power KVA	Stand by Amps	Dimensions	Weight
415 / 240	15	13	20.9	L x W x H = 1250 x 650 x 960 mm	400 Kg.
400 / 230	15	13	21.6		
380 / 220	15	13	22.8		

### POWER DEFINITION

**Prime Power** is available for an unlimited number of annual operating hours in variable load applications

**Standby Power** is applicable for supplying emergency power in variable load applications

### TERMS OF USE

Standard reference conditions Standby / Prime 27°C / 40°C Air Inlet Temp, 1000 m / 1000 m, 60% relative humidity.

### Main features:

- Heavy level acoustic attention: 65 dB at 1 meter from all directions on site
- A critical type muffler is mounted inside the enclosure
- Total design flexibility
- Robustness and enhanced durability
- Heavy duty base frame made up of steel U channels 10\*5cm insulated with 10cm sound absorbing material and covered by 2, 3mm sheet steel from both sides up and down
- Canopy components are manufactured in 1.5, 2, 3mm sheet steel
- Canopy walls and ceiling are coated with sound absorbing material
- Anti Scratch 100 micron Powder Paint Coated under the temperature of 120 oC
- Four lockable doors
- Four lifting points
- Oil and coolant drainage points
- Easy canopy dismantling for maintenance purpose
- Full weather proof enclosure



### Dimensions Super Sound Proof Version

Canopy	SSP15
Length (mm).	1700
Width (mm).	740
Height (mm).	1280
Dry weight (kg).	N/A

This document is not contractual –Saccal Industries company reserves the right to modify any of the characteristics stated in this data sheet without notice in a constant effort to improve the quality of its products.

Saccal Industries S.A.L. – Taanayel – Bekaa – Lebanon.  
Tel +961 (8) 51 01 57 – Fax : +961 (8) 51 01 58 – [www.saccal.com](http://www.saccal.com)



## ENGINE SPECIFICATIONS

<b>DATA</b>  <b>GENERAL DATA</b>	Motor model	<b>Perkins 403A-15G1, 3 cylinders</b>
	Cylinder arrangement	Vertical in-line
	Displacement (L)	1.496
	Bore (in) X Stroke (in)	84 mm x 90 mm
	Compression ratio	22.5:1
	Speed (RPM)	1500
	Cycle	4 Stroke
	Maximum stand-by power at rated RPM (BHP)	18.1
	BMEP (psi)	NA
	Governor type	MECHANICAL
<b>EXHAUST SYSTEM</b>	Exhaust gas temperature (°C)	590
	Exhaust gas flow (cfm)	115
	Max. exhaust back pressure (mmWG)	500
<b>FUEL SYSTEM</b>	Consumption @ 110% load (L/hr)	
	Consumption @ 100% load (L/hr)	
	Consumption @ 75% load (L/hr)	2.8
	Consumption @ 50% load (L/hr)	
<b>OIL</b>	Oil capacity (L)	6
	Min. oil pressure (Bar)	4.7
	Max. oil pressure (Bar)	7.5
	Oil consumption 100% load (L/hr)	0.3
<b>THERMAL BALANCE</b>	Heat rejection to exhaust (KW)	15
	Radiated heat to ambient (KW)	2
	Heat rejection to coolant (kW)	18.6
<b>AIR INTAKE</b>	AIR INTAKE_entree_max% Intake air flow (L/sec)	NA
<b>COOLANT SYSTEM</b>	Radiator & Engine capacity (L)	6
	Max water temperature (°C)	102
	Outlet water temperature (°C)	95
	Fan power (kW)	1.8
	Fan air flow w/o restriction (m3/sec)	0.9
	Available restriction on air flow (mm WG)	10
	Type of coolant Thermostat (°C)	Gencool 82-95
<b>EMISSIONS</b>	Emissions PM (g/kW.h)	NA
	Emission CO (g/kW.h)	NA
	Emissions HCNOx (g/kWh)	NA
	Emission HC (g/kW.h)	NA

This document is not contractual –Saccal Industries company reserves the right to modify any of the characteristics stated in this data sheet without notice in a constant effort to improve the quality of its products.