LDS Techologies Ltd.

UK MANUFACTURED GENERATORS

LDS TECHNOLOGIES MODEL: LDS1840P - LDS2000P

PERKINS 4016TAG SERIES TECHNICAL DATA SHEET

Cost Effective Power:

Economic power - 4 valve heads Reliable power-piston jet cooling Clean efficient power-low gaseous emissions Global distributor network Latest technology





LDS Technologies	Perkins 380-415 50hz		480v 60hz		
Generating Set Model	Engine Model	KVA	KW	KVA	KW
LDS1840P/1850P (PRIME)	4016TAG1A	1840/1850	1472/1480	N/A	N/A
LDS1840P/1850P (STANDBY)	4016TAG1A	1920/2000	1536/1600	N/A	N/A
LDS2000P (PRIME)	4016TAG2A	2000	1600	N/A	N/A
LDS2000P (STANDBY)	4016TAG2A	2250	1800	N/A	N/A

RATING DEFINITIONS

Prime Power

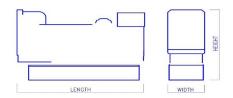
These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and these models can supply 10% overload power for 1 hour in 12 hours.

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 ratings.

DIMENSIONS AND WEIGHTS

Genset Models:	Net kg	Length mm	Width mm	Height mm
LDS450P	13200	5710	2780	3510
LDS500P	13200	5710	2780	3510



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Generating Set Model:	LDS1850P	LDS2000P	
Engine Manufacturer:	PERKINS	PERKINS	
Model:	4016TAG1A	4016TAG2A	
Number of Cylinder:	60° 16 VEE	60° 16 VEE	
Displacement:	61.1 Litre	61.1 Litre	
Cycle	4 stroke	4 stroke	
Cooling System	Water cooled	Water cooled	
Combustion System	Direct Injection	Direct Injection	
Bore/Stroke: (mm)	160 x 190	160 x 190	
Aspriation:	Turbo charged A2A	Turbo charged A2A	
Direction of rotation	Anti-clockwise	Anti-clockwise	
Lub. Oil Capacity Itrs:	237.2	237.2	
Coolant capacity ltrs:	316	316	
Electrical equipment	24vDC	24vDC	
Compression Ratio:	13.6:1	13.6:1	
	50hz		
Engine Speed:	1500rpm	1500rpm	
Maximum Continous			
Power at Flywheel: kw	1537	1715	
Maximum Standby			
Power at Flywheel: kw	1690	1886	
Fuel Cons: L/hr			
110%	412	470	
100%	371	422	
75%	269	307	
50%	179	204	
	60hz		
Engine Speed:	1800rpm	1800rpm	
Maximum Continous			
Power at Flywheel: kw	N/A	N/A	
Maximum Standby			
Power at Flywheel: kw	N/A	N/A	
Fuel Cons: L/hr		[
110%	N/A	N/A	
100%	N/A	N/A	
75%	N/A	N/A	
15%			

PERKINS ENGINE TECHNICAL DATA

NOTE: All engine performance data based on our maximum continuous rating at the standard reference conditions specified. Fuel consumption data at full load with a diesel fuel with a specific gravity of 0.85 conforming to BS2869:1988, Class A2

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

ALTERNATOR MODELS

Mecc Alte (UK)	ECO46-1L	L ECO46-1L	
Newage Stamford	PI734E (1840KVA)	PI734F	
Leroy Somer	LSA51.2S55	LSA51.2M60	

- STANDARD SUPPLY:
- 12/24 volt axial starter motor 12/24 volt heavy duty batteries Engine driven charging alternator Engine starting motor Set mounted heavy duty tropical radiator an pusher fan Fuel oil filter Lube oil filter Air intake filter Energised to run solenoid Low oil pressure switch High engine temperature switch Industrial silencer with flexible section Mechanical/electrical governor or ECM (check with sales) 8hr base fuel tank up to 800kva Open Skid base above 800kva Captive AVMs One set operation manuals One set engine and alternator maintenance books One set electrical schematic drawings

TESTING All units are fully tested in our works prior to depatch

WARRANTY All PowerCo equipment carries a full 12 month warranty in accordance with our conditions of sale. 24 month warranties are available FOC for standby units running at limited hours (please check with sales for full details).

AVAILABLE OPTIONS:

55DBA-85DBA weatherproof acoustic canopies and containers Residential silencers Critical silencers Full EEC trailers Non EEC trailers Free standing fuel tanks Bunded fuel tanks Automatic fuel make-up system Fuel level warnings CE certification Unilimited other options are available (contact sales for details)

ALTERNATOR:

We use Cummins Generator Technology (Newage Stamford), Leroy Somer of France and also Mecc Alte of the UK. Brushless revolving field 4 pole Class H temperature rise 125/40 Class H Insulation Automatic voltage regulator Single bearing 0.5% - 1% voltage regulation TIF 50/NEMA MGI-22-43 THF>3% RFI to BS800 50HZ voltage range - 380/220 - 415/240v 60HZ voltage range - 220/127 - 480/277v

SET MOUNTED DIGITAL CONTROL SYSTEM:

Deep Sea Electronics model **7120** microprocessor engine controller provides metering and alarm facilities via the LCD display as follows: Emergency stop push button Generator volts line/line Generator volts line/line Generator frequency Hz Mains volts line/line Mains volts line/neutral Mains frequency Hz Engine oil pressure Engine oil pressure Engine coolant temperature Engine battery/volts Event log Additional engine parameter metering via CAN (engine permitting)

PROTECTIONS:

Generator over-volts - shutdown Generator under-volts - shutdown Mains out of limits Mains under volts Mains over volts Mains under frequency Mains over frequency Over speed - shutdown Under speed - shutdown Over frequency Hz - shutdown Under frequency Hz - shutdown High current - alarm Battery charge fail - alarm Emergency stop Low oil pressure - shutdown High engine temperature - shutdown Fail to start - alarm High battery volts - alarm Low battery volts - alarm Fail to come to rest - alarm Loss of speed sensing signal - alarm LED indication indicates - alarm (amber) or shutdown (red flashing) USB programming port - standard printer cable connection

TIMERS:

Start delay Stop delay Crank/crank rest timer Engagement attempt an manual crank limit Safety on delay timer Warm up timer Cooling timer Exercise scheduler Energise to stop timer

CONTROL SYSTEM UPGRADES:

7220 gives the following extras: (Standard supply above 650kVA) Generator power factor Generator kNA Generator kVA Generator kVA/hr Generator kVAr/hr Generator kW/r Load shedding control Dummy load control Dual mutual Remote SCADA monitoring (wired)

7320 gives the following extras:-(Standard supply above 1000kVA) SMS messaging (modem required) SMS start/stop (modem required) Ethernet comms (additional module required) I/O expansion RS232 & RS484 comms

8610 auto-synchronising unit gives you the following upgrades:-Synchroscope display Bus volts line/line Bus volts line/neutral Bus frequency Hz Bus phase sequence Full automatic synchronising Automatic load sharing Automatic load level demand (switches units on and off line depending on load levels) Modbus RTU/TCP