LDS Technologies Ltd.

UK MANUFACTURED GENERATORS

LDS TECHNOLOGIES MODEL: LDS600P - LDS650P

PERKINS 2800 SERIES TECHNICAL DATA SHEET

Cost Effective Power:

Economic power-electronic fuel injection
Reliable power-high compression ratios
Clean efficient power-exceptional power to weight ratio
Global distributor network





LDS Technologies	Perkins	380-415 50hz		480v 60hz	
Generating Set Model	Engine Model	KVA	KW	KVA	KW
LDS600P (PRIME)	2806A-E18TAG1	600	480	625	500
LDS600P (STANDBY)	2806A-E18TAG1	660	528	687	550
LDS650P (PRIME)	2806A-E18TAG2	650	520	625	500
LDS650P (STANDBY)	2806A-E18TAG2	700	560	687	550

RATING DEFINITIONS

Prime Power

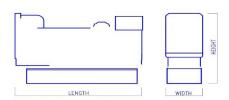
These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and these models can supply 10% overload power for 1 hour in 12 hours.

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
LDS600P	4600	3400	1540	2240
LDS650P	4700	3400	1540	2240



Vat Number: 252 614 226

PERKINS ENGINE TECHNICAL DATA

Generating Set Model:	LDS600P	LDS650P
Engine Manufacturer:	PERKINS	PERKINS
Model:	2806A-E18TAG1	2806A-E18TAG2
Number of Cylinder:	6 In line	6 In line
Displacement:	18.1 Litre	18.1 Litre
Cycle	4 stroke	4 stroke
Cooling System	Water cooled	Water cooled
Combustion System	Direct Injection	Direct Injection
Bore/Stroke: (mm)	145 x 183	145 x 183
Aspriation:	Turbo charged A2A	Turbo charged A2A
Direction of rotation	Anti-clockwise	Anti-clockwise
Lub. Oil Capacity Itrs:	62	62
Coolant capacity ltrs:	61	61
Electrical equipment	24vDC	24vDC
Compression Ratio:	14.5:1	14.5:1
	50hz	
Engine Speed:	1500rpm	1500rpm
Maximum Continous		
Power at Flywheel: kw	522	565
Maximum Standby		
Power at Flywheel: kw	574	609
Fuel Cons: L/hr		-
110%	134	143
100%	123	132
75%	90	97
50%	61	66
	60hz	
Engine Speed:	1800rpm	1800rpm
Maximum Continous		
Power at Flywheel: kw	543	543
Maximum Standby		
Power at Flywheel: kw	598	598
Fuel Cons: L/hr		
110%	141	141
100%	127	127
75%	95	95
50%	66	66

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)	ECO40-1.5L	ECO40-2L
Newage Stamford	HCI544E	HCI544F
Leroy Somer	LSA47.2L9	LSA49.1S4

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

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/neutral Generator amps 3 phase Generator frequency Hz Mains volts line/line Mains volts line/neutral Mains frequency Hz Engine speed

Engine oil pressure Engine coolant temperature Engine battery/volts

Engine hours run

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 phase sequence Generator kVA

Generator kVA/hr

Generator kVAr

Generator kVAr/hr

Generator kW

Generator kW/hr

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