



LCP1 & LCP2



0883-01

OI -

ЧЫЙ

LCP1



The LCP1 Series is a keystart control panel equipped with basic instrumentation and all the necessary protection devices. An instrumentation upgrade is available.

The LCP2 panel allows the generating set to be automatically controlled by a remote signal (2 wire control) and are therefore suitable for controlling a standby generating set in conjunction with an automatic transfer switch.

A wide range of options are available.

1		>2
-	Ur	~

	Control panels featured may include optional acce	ssories	
Add the second second	STANDARD FEATURES	LCP1/	LCP2
Instrumentation	Voltmeter		
	Ammeter	- MOC (C	
	Combined Frequency & Tachometer		
	Hours Run Counter	-	
	Battery Condition Voltmeter		
Controls	Keyswitch Off/Run/Preheat/Start		
	Run/Off/Auto Switch		
	Lock Down Stop Button		
	Engine Preheat Pushbutton (if required)	-	
	Lamp Test Pushbutton		
	4 Pos Voltmeter Phase Selector Switch	-	1. A. J.
	7 Pos Voltmeter Phase Selector Switch	-	
	4 Pos Ammeter Phase Selector Switch	-	
	3 Attempt Start Timer	-	
	Common Fault Alarm Signal	-	
Power Connection	Terminals for Customer Connection		
Shutdowns with	Fail to Start		
Individual Warning Lamps	High Coolant Temperature		
	Low Lube Oil Pressure	1 124	S
	Overspeed		
Remote Signals /	Interface to Intelligent Load Transfer Panel		
Contacts from Panel	Terminals for Remote Emergency Stop		

Key: Feature available as standard - Feature not available

CONTROL PANELS

0)	STANDARD SPECIFICATION
PANEL CONSTRUCTION AND FINISH	Heavy duty sheet steel with a hinged door. The corrosion resistance is enhanced by a phosphate chemical conversion coating which provides an excellent corrosion resistant surface. The metal components are then "painted" by applying a polyester powder which is subjected to high temperatures which causes the powder to melt and form a continuous, high gloss and extremely durable coating. This entire process is carried out on a state-of-the-art automatic conveyorised plant which is believed to be the largest of its type in the U.K. The fascia is made from UV stable, self-adhesive polycarbonate and is available in a wide range of languages.
MOUNTING	The panel is mounted off the generating set baseframe on a vibration isolated robust steel stand.
CONTROL SYSTEM	The heart of the control system is a range of printed circuit boards (P.C.B.'S). These use only circuit elements that have been tried and tested in the field. During manufacture every P.C.B. is tested at least 3 times:- once after initial manufacture, once after being fitted in the control panel and finally during the test of the complete generating set. This ensures total control system reliability. If it is necessary to replace a P.C.B., this is easily and quickly done as all connections are via multi-pin plugs and sockets.
INSTRUMENTATION	All A.C. instruments are 90° deflection and flush mounting. All engine gauges are automotive type, 52 mm diameter and are electrically operated.
SWITCHES	All switches and push buttons are of the heavy duty industrial type.
WIRING	The internal A.C. and D.C. control panel wiring harnesses are pre-formed before fitting. Connections to the printed circuit board are by multi-pin plugs and sockets.

OPTIONAL FEATURES	LCP1	LCP2	OPTION CODE
instrumentation	MOCKOR		1.1
Lube Oil Pressure Gauge/Coolant Temperature Gauge	-		PG2
Controls			
Static Battery Charger 5A CVC 220/240 Volt & Auxiliary Control	-		ELEC 1
Output - Main			
4 Pole Breaker in place of 3 Pole Breaker	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4 POLE
Socket Rated for Full Output (<32A, 50Hz only) in place of Terminals			CSK1
Socket Rated for Full Output (≤63A, 50Hz only) in place of Terminals			CSK2
Earth Leakage Protection for Main Output 300 mA, CB Trip			ELR1
Fault Channels - Alarms with Individual Warning Lamps			
Low Fuel Level (Canopy only)	-		FS2

Key: Feature available as optional - Feature not available



In line with our policy of continuous development, we reserve the right to change spe

fications without notice.

L-CPANEL/1299

LISTER POWERED GENERATING SETS ный





MODEL		L10	L12.5	L17.5	L20	LH14	LH22	LH30	LH40	_
380-415V 3 Phase 50 Hz			12.5	17.5	20.0	14.0	21.8	30.0	40.0	
300-415V 3 Phase 50 Hz			12.5		16.0				32.0	
000V/0 Dhoos 00 Up	kW			14.0		11.2	17.4	24.0		
220V 3 Phase 60 Hz		10.0	15.0	21.5	25.0			31.1		
	kW	8.0	12.0	17.2	20.0	144	чым	24.9		
MODEL		L8SP	L10SP	L14SP	L16SP	191	Ly,			
240V Single Phase 50 Hz			10.0	14.0	16.0	10				
	kW		10.0	14.0	16.0	12/		F		
240V Single Phase 60 Hz		8.0	12.0	17.0	20.0	125/	0	121		
	kW	8.0	12.0	17.0	20.0		11	5		
							0	<u>m</u>		_
Engine model		LPW2	LPW3	LPW4	LPWT4	LPW2	LPW3	LPW4	LPWT4	
Туре			4 CY	CLE			4 CY	CLE		
Cooling		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
No. of cyl. in line		2	3	4	4	2 80	100V3	4	4	
Bore	mm	86	86	86	86	86	86	86	86	
The second se	in	3.39	3.39	3.39	3.39	3.39	3.39	3.39	3.39	
Stroke	mm	80	80	80	80	80	80	80	80	
	in	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	
Displacement	litres	0.93	1.40	1.86	1.86	0.93	1.40	1.86	1.86	
	cu in	56.8	85.4	113	113	56.7	85.4	113	113	
Compression ratio		18.5:1	18.5:1	18.5:1	16.2:1	18.5:1	18.5:1	18.5:1	16.2:1	
	- 10 M			10.000	300000					
Engine speed	rpm		1500	1500	3000	3000	3000	3000	3000	
Max continuous power	kW		12.4	16.5	21.1	14.7	22.1	29.5	41.3	
at flywheel	hp		16.6	22.1	28.3	19.7	29.6	39.6	55.4	
BMEP	kPA		710	710	908	632	634	635	888	
	psi		103	103	132	91.6	91.9	92.1	129	
Fuel consumption	l/hr		3.2	4.3	5.2	3.9	5.9	7.8	10.9	
	USg/hr		0.8	1.1	1.4	1.0	1.6	2.1	2.9	
	-									-
Engine speed	rpm	1800	1800	1800	1800			3600		
Max continuous power	kw	10.2	15.3	20.5	26.2			30.8		
at flywheel	hp	13.7	20.5	27.5	35.1	1210		41.3	1 I	
BMEP	kPA	731	731	2E734 DIVI	939			552		
	psi	106	106	106	136			80.0		
Fuel consumption	l/hr	2.6	3.9 4	5.2	7.02			8.5		
uor consumption	USg/hr	0.7	1.0	1.4	1.8			2.2		
	obym	0.7			1.0			2.2		-
onath:	-	1075	1192	1357	1357	1067	1193	1356	1354	
Length:	mm				53.4	42.0	46.9		53.3	
Midth	in	42.3	46.9 576	53.4	605	42.0 576	40.9 576	53.4 576		
Width:	mm	576							616	
Total to	in	22.7	22.7	22.7	23.8	22.7	22.7	22.7	22.7	
Height:	mm	1185	1185	1185	1185	1185	1185	1185	1185	
07	in	46.7	46.7	46.700		46.7	46.7	46.7	46.7	
Weight:	kg	338	386	445	453	324	378	428	458	
	lb	745	851	981	999	714	833	944	1010	

٩ЫЙ

Pating definitions: STANDBY (3000/3600 RPM models): These ratings are applicable for supplying continuous power (at variable load) in the event of a utility por overload capacity for 1 hour in 12. The alternators on these models are peak continuous rated (as defined in ISO 8528-3) at 25°C. CONTINUOUS (1500/1800 RPM models): These ratings are applicable for supplying continuous electrical power (at variable load) in flew of co Ratings (Phase at 0 8nf and Single Phase at 1.0bf. lure

STANDARD SPECIFICATIONS LISTER POWERED GENERATING SETS

1. OUTPUT RATINGS

The generating set is normally supplied connected for 380/415 volts, 3 phase, 50 Hz, or 220/240 volt, single phase, 50 Hz, but alternative voltages/frequencies are available.

2. ENGINE

Lister heavy duty industrial diesel engine.

2.1 Governor

Mechanical compliant with BS5514, Class A1.

2.2 Electrical System

12 volt DC. Energised to run shutdown solenoid. Oil pressure and engine temperature switches.

3. ENGINE COOLING

Radiator and cooling fan complete with protection guards, designed to cool the engine in ambient temperatures up to 50°C (122°F).

4. ENGINE FILTRATION SYSTEM

Cartridge type dry air filters. Cartridge type fuel filters and full flow lube oil filters. All filters have replaceable elements.

5. EXHAUST SYSTEM

Heavy duty industrial capacity exhaust silencer (supplied loose).

6. ELECTRICAL SYSTEM

12 volt system with battery charging alternator, axial type starter motor, and combustion air preheater which operates during engine cranking. High capacity maintenance free lead acid starting battery, battery rack incorporated in the generating set baseframe, and heavy duty interconnecting cables with terminations.

Note: Control panel featured may include optional accessorie

7. ALTERNATOR

Screen protected and drip-proof, selfexciting, self-regulating brushless alternator.

8. MOUNTING ARRANGEMENT

The complete generating set is mounted, as a whole, on a heavy duty fabricated steel baseframe constructed from folded sections. The baseframe incorporates a facility for handling by fork lift truck in addition to the single point lifting facility.

9. FUEL SYSTEM

Baseframe design incorporates a translucent polyethylene fuel tank with a capacity of approximately 44 litres (11.6 US gal). The fuel tank is shrouded by a steel surround to protect it from accidental damage.

10. CONTROL SYSTEM



10.1 LCP1 Control Panel

The base mounted LCP1 control panel is a vibration isolated sheet steel enclosure. The control panel is equipped as follows: a. Instruments Analogue Voltmeter Hours Run Meter Battery Condition Voltmeter b. Controis Off/Run/Crank Keyswitch Emergency Stop Pushbutton Voltmeter Phase Selector Switch c. Shutdown Protection Devices with Indicator for: High Engine Temperature Low Oil Pressure.

10.2 Circuit Breaker

A Circuit breaker is mounted within the control section of the vibration isolated panel with adequate access for outgoing cables through the panel outlet section.

11. DOCUMENTATION

A full set of operation and maintenance manuals, circuit wiring diagrams, commissioning/fault finding instruction leaflets.

12. GENERAL ARRANGEMENT

The generating set is designed and constructed for installation in a weather protected building.

13. QUALITY STANDARDS

The equipment meets the following standards: BS4999, BS5000, BS5514, IEC 34, VDE0530, NEMA MG-1.22. F.G.Wilson is a fully accredited ISO9001 company.

14. WARRANTY

All equipment is guaranteed for a period of 12 months from date of commissioning or 18 months from shipping, whichever occurs first. Extended warranty terms are available.

чЫЙ

GROUP HEADQUARTERS

278-962

ARNE, Co. ANTRIM, BT40 1EJ NORTHERN IRELAND, UNITED KINGDOM TELEPHONE: 44 (0) 28 2826 1000 FAX: 44 (0) 28 2826 1111





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

SOUND ATTENUATED ENCLOSURES FOR LISTER POWERED GENERATING SETSHILL



иленных в н и и п и The fully weatherproof Sound Attenuated (SA) enclosures reduce sound levels to a level that is lower than European Community regulations.

The enclosures incorporate internally mounted exhaust silencers and are of extremely rugged construction in order to withstand the rough handling common on many construction sites. The panel is viewed through a hinged perspex window.

Model pictured may include optional accessories

HIGHLY CORROSION RESISTANT CONSTRUCTION

- Body made from galvanised steel
- Stainless steel locks
- Zinc plated or stainless steel fasteners and hinges
- Sheet steel components pre-treated with zinc phosphate prior to polyester powder coating

EXCELLENT ACCESS FOR MAINTENANCE

- Top hung gull wing doors
- Hinged and lockable end panels
- Radiator fill access through radiator end panel
- Lube oil drain piped to exterior of the canopy

SECURITY AND SAFETY

- Perspex control panel viewing window in a lockable access door
- Emergency stop button mounted on canopy exterior
- Cooling fan and battery charging alternator fully guarded
- Fuel fill and battery can only be reached via lockable access doors
- Exhaust silencing system enclosed for operator safety

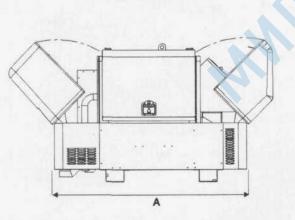
TRANSPORTABILITY

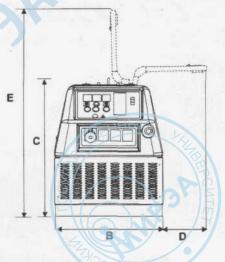
- Tested and certified single point lifting facility
- Lifting points on baseframe
- Pallet truck and forklift truck pockets

FULLY WEATHERPROOF

SOUND ATTENUATED ENCLOSURES

enerating Set	Sound Power	1	5M	7	M	FILT	IM O
Model	Level (LWA)	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load
L10/L8SP	tha	tba	tba	tba	tba	tba	tba
L12.5/L10SP	92	60	60	66	66	TOR	77
L17.5/L14SP	91	59.5	61	66	68	79	79
L20/L16SP	87	56	56.5	63	63	73	73
LH14	98	67	67.5	74	74	85	85
LH22	97	65 0	66	72	73	84	84
LH30	98	67	67.5	74	74	86	86
LH40	99	66.5	66.5	73	73	84.5	84.5





Generating Set	A	В	С	D	E	Fuel Capacity	Weight
Model	mm (in)	mm (in)	mm (in)	mm (in)	mm (in)	I (Usg)	Kg (lb)
L10/L8SP	1592 (62.7)	900 (35.4)	1140 (44.9)	382 (15.0)	1740 (68.5)	45 (11.9)	497 (1096)
L12.5/L10SP	1592 (62.7)	900 (35.4)	1140 (44.9)	382 (15.0)	1740 (68.5)	45 (11.9)	555 (1224)
L17.5/L14SP	1592 (62.7)	900 (35.4)	1140 (44.9)	382 (15.0)	1740 (68.5)	45 (11.9)	609 (1343)
L20/L16SP	1592 (62.7)	900 (35.4)	1140 (44.9)	382 (15.0)	1740 (68.5)	45 (11.9)	612 (1349)
LH14	1592 (62.7)	900 (35.4)	1140 (44.9)	382 (15.0)	1740 (68.5)	45 (11.9)	497 (1096)
LH22	1592 (62.7)	900 (35.4)	1140 (44.9)	382 (15.0)	1740 (68.5)	45 (11.9)	547 (1206)
LH30	1592 (62.7)	900 (35.4)	1140 (44.9)	382 (15.0)	1740 (68.5)	45 (11.9)	592 (1305)
LH40	1592 (62.7)	900 (35.4)	1140 (44.9)	382 (15.0)	1740 (68.5)	45 (11.9)	622 (1372)

Net Weight with lube oil, no coolant, no fuel. Dimensions in mm.



278-960

GROUP HEADQUARTERS OLD GLENARM ROAD LARNE, Co. ANTRIM, BT40 1EJ NORTHERN IRELAND, UNITED KINGDOM TELEPHONE: 44 (0) 28 2826 1000 FAX: 44 (0) 28 2826 1111





ons without notice.

LISTER POWERED MOBILE GENERATING SETS

Drawbar chassis running gear for the Lister powered range of mobile generating sets.

01-0883-01

Roadworthy trailers meeting all relevant EC standards for brakes and overrun devices and using TÜV approved components.

Chassis built to TÜV approved design. Fixed height towbar and adjustable height towbar units available.

Generating Set Model	Length mm (in) Width		Width	Height	Weight kg (lb)	
	Fixed Height Towbar	Adjustable Height Towbar**	mm (in)	mm (in)	(inc. oil, water, fuel)	I.
L10	2370 (93.3)	2720 (107)	1300 (51.2)	1485 (58.5)	646 (1424)	
L12.5	2370 (93.3)	2720 (107)	1300 (51.2)	1485 (58.5)	692 (1526)	1
L17.5	2430 (95.7)	2780 (109)	1300 (51.2)	1485 (58.5)	747 (1647)	
L20	2430 (95.7)	2780 (109)	1300 (51.2)	1485 (58.5)	750 (1654)	
LH14	2370 (93.3)	2720 (107)	1300 (51.2)	1485 (58.5)	633 (1396)	
LH22	2370 (93.3)	2720 (107)	1300 (51.2)	1485 (58.5)	684 (1508)	
LH30	2430 (95.7)	2780 (109)	1300 (51.2)	1485 (58.5)	730 (1610)	
LH40 /	2430 (95.7)	3130* (123)	1300 (51.2)	1485 (58.5)	760 (1676)	

750mm distance arms.

Length of adjustable height towbar is at maximum extension.

1

NOC

57.

These roadworthy trailers meet all EC regulations and can be used without restriction throughout the EC. It may be required, however, that the trailers be registered in the country in which they are based, according to the registration requirements of that country.







٩ЫЙ

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

L-MOBILE/1299