



TECHNOPOWER

FPT 120
POWERED BY FPT
FPT N45 TM3



LEROY-SOMER™

Genset Model	FPT 120
Engine Model	FPT N45 TM3
Alternator Model	ECP34 1M4 C
Controller Model	Deep Sea 4520 MKII








PRIME RATINGS

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

STANDBY RATINGS

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.

OUTPUT RATINGS		50Hz		60Hz	
		PRIME	STANDBY	PRIME	STANDBY
KVA POWER	KVA	120.0	132.0	125.0	138.0
KW POWER	KW	96.0	106.0	100.0	110.0
RATED SPEED	r.p.m	1500		1800	
VOLTAGE	V	230/400 240/415		110/220 220/380	

-  Three Phase
-  Diesel
-  Liquid Cooled
-  90 Amps Battery Charging Alternator
-  12V Negative

ENGINE SPECIFICATIONS

Manufacturer	FPT
Model	FPT N45 TM3
Engine Type	4-stroke
Cooling System	Liquid Cooled
Bore and Stroke	104 x 132 mm
Compression Ratio	17.5 : 1
Number of cylinders and arrangement	4/ Vertical in Line
Circuit Breaker Type	3Pole MCB/MCCB
Aspiration	Turbocharged, after-cooled air to air
Displacement	4.5 L



TECHNOPOWER FZC

Q4-94, SHARJAH AIRPORT INT'L FREEZONE (SAIF ZONE), SHARJAH, UAE.

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ALTERNATOR SPECIFICATIONS

Manufacturer	Leroy Somer	Over speed (rpm)	2250
Model	TAL044E	Voltage Regulation(steady state)	+/- 1.0%
No of Bearings	1	Waveform: NEMA = TIF	< 50
Insulation Class	H	Waveform: I.E.C. = FHT	< 2%
Wires	6(12)	Winding pitch	2/3
Ingress Protection Rating	IP 23	Excitation System	SHUNT
AVR Model	R120	Radio Interference	Supression is in line with European Standard EN61000-6

IP23 Protection

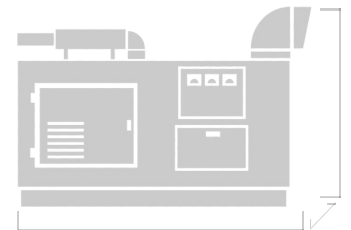
H Class Insulation

SHUNT Excitation System

WEIGHT AND DIMENSIONS



		OPEN	CLOSE
LENGTH	mm	2500	2806
WIDTH	mm	770	1100
HEIGHT	mm	1410	1652.3
WEIGHT	kg	1300	1728



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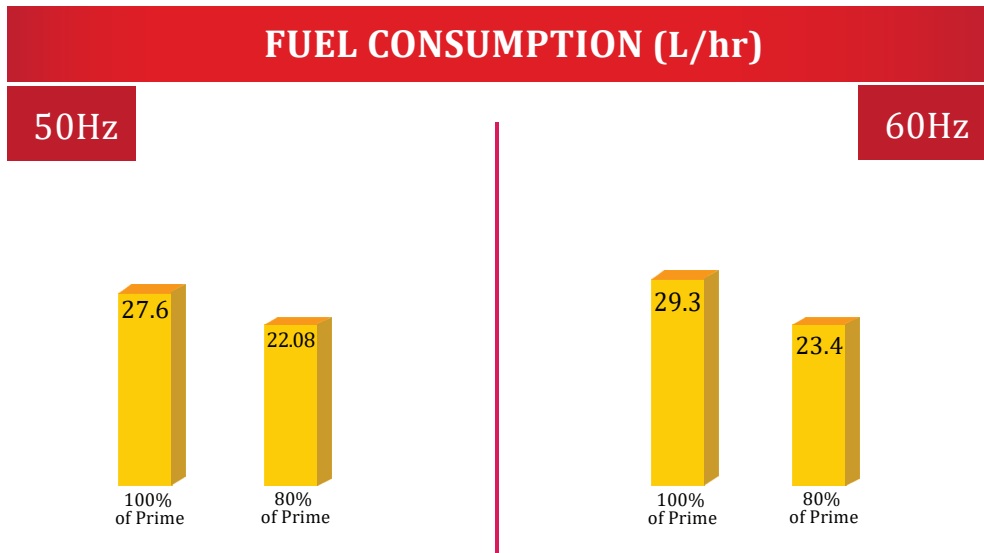
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Fuel Filter Type	Replaceable Element
Recommended Fuel	Class A2 Diesel
Fuel Tank Capacity	161 L



FUEL SYSTEM

EXHAUST		50Hz		60Hz	
		PRIME	STANDBY	PRIME	STANDBY
	SILENCER TYPE	INDUSTRIAL			
	SILENCER NOISE REDUCTION LEVEL	22dB		17dB	
	MAX. ALLOWABLE BACK PRESSURE	5(50)		5(50)	
	EXHAUST GAS FLOW	538	538	650	650
	EXHAUST GAS TEMPERATURE	540(1004)	540(1004)	582(1080)	582(1080)

EXHAUST SYSTEM



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A I R	AIR FILTER TYPE		Dry			
			50Hz		60Hz	
			PRIME	STANDBY	PRIME	STANDBY
	COMBUSTION AIR FLOW	m ³ /hr(kg/hr)	427(512.5)	427(512.5)	507(609.3)	507(609.3)
	MAX. COMBUSTION AIR INTAKE RESTRICTION	kPa(mbar)	2.0(20)		2.0(20)	

LUBRICATION SYSTEM

Oil Filter Type	Spin-on , Full Flow	
Total Oil Capacity	L	12.8
Oil Pan	L	8.5
Oil Type	ACEA E3/E5	

COOLING SYSTEM

		50Hz	60Hz
Water Pump Type	Centrifugal		
Cooling System Capacity	L	18.5	18.5
Radiator Fan Load	kWm	1.8	2.8
Radiator Cooling Airflow	m ³ /s	2.2	2.6
External Restriction to Cooling Airflow	Pa	147	147





TECHNOPOWER



AUTHORISED GOLD DISTRIBUTOR



DSE4510/20

AUTO START AND AUTO MAINS FAILURE CONTROL MODULES

(ALTERNATOR FREQUENCY & CAN SPEED SENSING)

FEATURES



DSE4520



DSE4510



KEY BENEFITS

- Ultimate size to feature ratio
- Automatically transfers between mains (utility) and generator (DSE4520 only)
- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout for ease of use
- Multiple parameters are monitored simultaneously which are clearly displayed on the largest back-lit icon display in its class
- The module can be configured to suit a wide range of applications
- Uses DSE Configuration Suite PC Software for simplified configuration
- Compatible with a wide range of CAN engines
- Licence-free PC software
- IP65 rating (with optional gasket) offers increased resistance to water ingress

KEY FEATURES

- Alternator frequency & CAN speed sensing in one variant
- Largest back-lit icon display in its class
- Heated display option
- Real time clock provides accurate event logging
- Fully configurable via the fascia or PC using USB communication
- Extremely efficient power save mode
- 3 phase generator sensing
- 3 phase mains (utility) sensing (DSE4520 only)
- Compatible with 600 V ph to ph nominal systems
- Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Accumulated power monitoring (kW h, kVA h, kVAr h)
- Generator overload protection (kW)
- Generator/load current monitoring and protection
- Fuel and start outputs (configurable when using CAN)
- 4 configurable DC outputs (2 for DSE4510)
- 3 configurable analogue/digital inputs
- 4 configurable digital inputs
- Configurable staged loading outputs
- 3 engine maintenance alarms
- Engine speed protection
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Battery voltage monitoring
- Start on low battery voltage
- Configurable remote start input
- 1 alternative configuration
- Comprehensive warning, electrical trip or shutdown protection upon fault condition
- LCD alarm indication
- Event log (50)

SPECIFICATION

DC SUPPLY

CONTINUOUS VOLTAGE RATING
8 V to 35 V Continuous

CRANKING DROPOUTS

Able to survive 0 V for 50 mS, providing supply was at least 10 V before dropout and supply recovers to 5 V. This is achieved without the need for internal batteries. LEDs and backlight will not be maintained during cranking.

MAXIMUM OPERATING CURRENT

85 mA at 12 V, 96 mA at 24 V

MAXIMUM STANDBY CURRENT

51 mA at 12 V, 47 mA at 24 V

MAXIMUM SLEEP CURRENT

35 mA at 12 V, 32 mA at 24 V

MAXIMUM DEEP SLEEP CURRENT

<10 uA at 12 V, <10 uA at 24 V

MAINS (UTILITY) DSE4520 ONLY

VOLTAGE RANGE
15 V to 415 V AC (Ph to N)
26 V to 719 V AC (Ph to Ph)

FREQUENCY RANGE

3.5 Hz to 75 Hz

OUTPUTS

OUTPUT A (FUEL)

10 A short term, 5 A continuous, at supply voltage

OUTPUT B (START)

10 A short term, 5 A continuous, at supply voltage

AUXILIARY OUTPUTS C & D

2 A DC at supply voltage

AUXILIARY OUTPUTS E & F DSE4520

2 A DC at supply voltage

GENERATOR

VOLTAGE RANGE

15 V to 415 V AC (Ph to N)
26 V to 719 V AC (Ph to Ph)

FREQUENCY RANGE

3.5 Hz to 75 Hz

DIMENSIONS

OVERALL

140 mm x 113 mm x 43 mm
5.5" x 4.4" x 1.7"

PANEL CUT-OUT

118 mm x 92 mm
4.6" x 3.6"

MAXIMUM PANEL THICKNESS

8 mm
0.3"

STORAGE TEMPERATURE RANGE

-40 °C to +85 °C
-40 °F to +185 °F

OPERATING TEMPERATURE RANGE

-30 °C to +70 °C
-22 °F to +158 °F

-40 °C to +70 °C (for heated display variant)
-40 °F to +158 °F (for heated display variant)

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Silent Canopy




Fuel filling point with key lock



Document holder



Emergency stop button

Central lifting hook for easy lifting 

Control Panel IP55 Control panel managed by DSE 4520 MKII controller 

Heavy duty Engines optimized for low fuel consumption

Alternator - 3phase and Single phase with AVR


Stainless Steel Lockable handles & Hinges

Sound proof galvanised canopy  65dB(A) @7m

In-built fuel tank made of Polypropylene with bounded base for 8hrs @full load

Reinforced anti-rollover forklift tunnels  for safe handling



Easy maintenance easily removable side part 



Fuel Inlet/Outlet



Exhaust pipes with exhaust heat wrap for high-performance and security



Galvanized metal sheet to increase strength & durability



Oil and coolant drain



Anti-vibration pads attenuate vibrations caused by the unit



Exhaust terminal pipe with tilting cap rain over