



TECHNOPOWER

FPT 160
POWERED BY FPT
N67 TM3A



LERROY-SOMER™

Genset Model	FPT 160
Engine Model	N67 TM3A
Alternator Model	TAL044K
Controller Model	DSE 6110 MKIII



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	160.0	176.0	170.0	187.0
KW POWER	KW	128.0	141.0	136.0	150.0
RATED SPEED	r.p.m	1500		1800	
VOLTAGE	V	230/400 240/415		110/220 220/380	

ENGINE SPECIFICATIONS

Manufacturer	FPT
Model	FPT N67 TM3A
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	6/ Vertical in Line
Circuit Breaker Type	3Pole MCB/MCCB
Aspiration	Turbocharged
Displacement	6.7 L

-  Three Phase
-  Diesel
-  Liquid Cooled
-  90 Amps Battery Charging Alternator
-  14V Negative



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	TAL044K	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

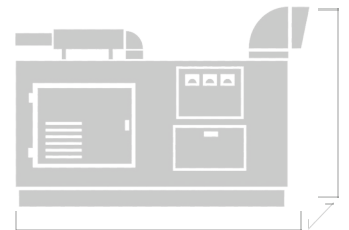
H Class Insulation

SHUNT Excitation System

WEIGHT AND DIMENSIONS



		OPEN	CLOSE
LENGTH	mm	2500	3206
WIDTH	mm	770	1100
HEIGHT	mm	1410	1852.3
WEIGHT	kg	1440	1842



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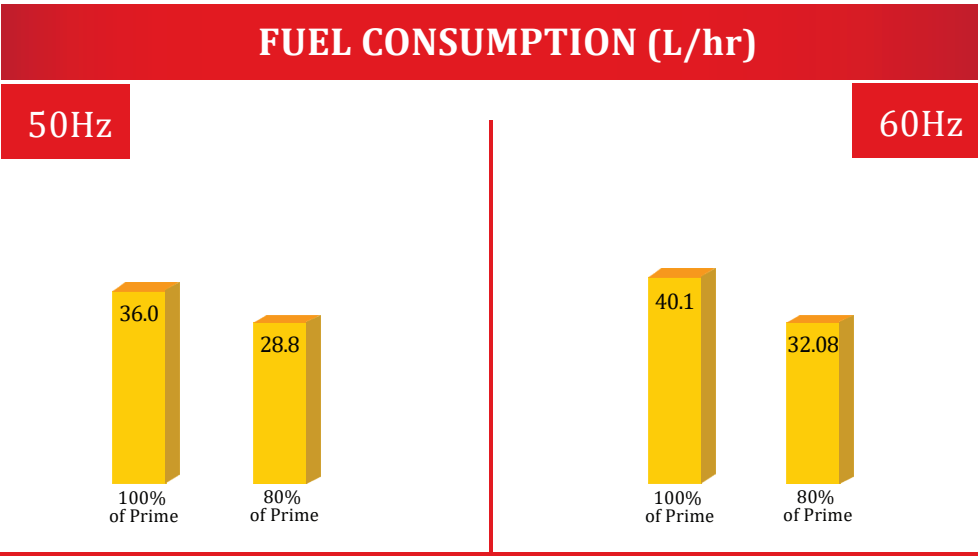
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Fuel Filter Type	Replaceable Element
Recommended Fuel	Class A2 Diesel
Fuel Tank Capacity	161 L



FUEL SYSTEM

EXHAUST			50Hz		60Hz						
	SILENCER TYPE		INDUSTRIAL								
SILENCER NOISE REDUCTION LEVEL		22dB		17dB							
MAX. ALLOWABLE BACK PRESSURE		kPa(mbar)		5(50)							
		PRIME		STANDBY		PRIME		STANDBY			
EXHAUST GAS FLOW		kg/hr		739		739		907		907	
EXHAUST GAS TEMPERATURE		°C (°F)		570(1058)		570(1058)		541(1006)		541(1006)	

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)	586(706)	586(706)	723(870)	723(870)
	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	17.2
Oil Pan	L	12
Oil Type	ACEA E3/E5	

COOLING SYSTEM

		50Hz	60Hz
Water Pump Type	Centrifugal		
Cooling System Capacity	L	25.5	25.5
Radiator Fan Load	kWm	5.0	7.5
Radiator Cooling Airflow	m ³ /s	3.8	4.8
External Restriction to Cooling Airflow	Pa	196	196



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TECHNOPOWER



AUTHORISED GOLD DISTRIBUTOR



DSE6110/20 MKIII

AUTO START & AUTO MAINS (UTILITY) FAILURE CONTROL MODULES



DSE6110 MKIII



DSE6120 MKIII

KEY FEATURES

- 4-line back-lit LCD text display
- Multiple display languages
- Five-key menu navigation
- LCD alarm indication
- Customisable power-up text and screen images.
- DSENet® expansion compatibility
- Data logging facility
- Internal PLC editor
- Protections disable feature
- Fully configurable via PC using USB communications
- Front panel configuration with PIN protection
- Power save mode
- 3-phase generator sensing and protection
- 3-phase mains (utility) sensing and protection (DSE6120 MKIII only)
- Automatic load transfer control (DSE6120 MKIII only)
- Generator current and power monitoring (kW, kvar, kVA, pf)
- Mains (utility) current and power monitoring (kW, kvar, kVA, pf) (DSE6120 MKIII only)
- kW overload alarm
- Over current protection
- Breaker control via fascia buttons
- Fuel and start outputs configurable when using CAN
- 6 configurable DC outputs
- 4 configurable analogue/digital inputs
- Support for 0 V to 10 V & 4 mA to 20 mA sensors
- 8 configurable digital inputs
- CAN, MPU and alternator frequency speed sensing in one variant
- Real time clock
- Manual and automatic fuel pump control
- Engine pre-heat and post-heat functions
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel level alarms
- 3 configurable maintenance alarms
- Compatible with a wide range of CAN engines, including Tier 4 engine support
- Uses DSE Configuration Suite PC Software for simplified configuration
- Licence-free PC software
- IP65 rating (with optional gasket) offers increased resistance to water ingress
- Configurable CAN read & transmitted information.
- 1 alternative configuration.

KEY BENEFITS

- Automatically transfers between mains (utility) and generator (DSE6120 MKIII only) for convenience.
- 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 & displayed simultaneously for full visibility
- The module can be configured to suit a wide range of applications for user flexibility
- PLC editor allows user configurable functions to meet user specific application requirements.

SPECIFICATIONS

DC SUPPLY

CONTINUOUS VOLTAGE RATING
8 V to 35 V Continuous
5 V for up to 1 minute

CRANKING DROPOUTS

Able to survive 0 V for 100 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

260 mA at 12 V, 150 mA at 24 V

MAXIMUM STANDBY CURRENT

145 mA at 12 V, 85 mA at 24 V

CHARGE FAIL/EXCITATION RANGE

0 V to 35 V

GENERATOR & MAINS (UTILITY)

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

MAGNETIC PICKUP

VOLTAGE RANGE
+/- 0.5 V to 70 V

FREQUENCY RANGE

10,000 Hz (max)

INPUTS

DIGITAL INPUTS A TO H
Negative switching

ANALOGUE INPUTS A & D

Configurable as:
Negative switching digital input
0 V to 10 V sensor
4 mA to 20 mA sensor
Resistive sensor

ANALOGUE INPUTS B & C

Configurable as:
Negative switching digital input
Resistive sensor

OUTPUTS

OUTPUT A & B (FUEL & START)
10 A DC at supply voltage

AUXILIARY OUTPUTS C, D, E, F, G & H

2 A DC at supply voltage

DIMENSIONS

OVERALL
216 mm x 158 mm x 43 mm
8.5" x 6.2" x 1.5"

PANEL CUT-OUT

184 mm x 137 mm
7.2" x 5.3"

MAXIMUM PANEL THICKNESS

8 mm
0.3"

STORAGE TEMPERATURE RANGE

-40°C to +85°C
-40 °F to +185 °F

OPERATING TEMPERATURE RANGE

NON-HEATED DISPLAY VARIANT
-30°C to +70°C
-22 °F to +158 °F

HEATED DISPLAY VARIANT

-40 °C to +70 °C
-40 °F to +158 °F

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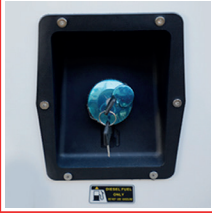
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TECHNOPOWER

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 6110 MKIII 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