



TECHNOPOWER

FPT 400

POWERED BY FPT
C13 TE3A



LERROY-SOMER™



| | |
|------------------|----------------|
| Genset Model | FPT 400 |
| Engine Model | C13 TE3A |
| Alternator Model | TAL047 A |
| 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 1 hour 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 | 400.0 | 440.0 | 420.0 | 462.0 |
| KW POWER | KW | 320.0 | 352.0 | 336.0 | 370.0 |
| RATED SPEED | r.p.m | 1500 | | 1800 | |
| VOLTAGE | V | 230/400 240/415 | | 110/220 220/380 | |

ENGINE SPECIFICATIONS

| | |
|-------------------------------------|---------------------------|
| Manufacturer | FPT |
| Model | C13 TE3A |
| Engine Type | 4-stroke |
| Cooling System | Liquid Cooled |
| Bore and Stroke | 135 x 150 mm |
| Compression Ratio | 16.5 : 1 |
| Number of cylinders and arrangement | 6/ Vertical in Line |
| Circuit Breaker Type | 3Pole MCCB |
| Aspiration | Turbo Aftercooler air/air |
| Displacement | 12.88 L |



Three Phase



Diesel



Liquid Cooled



90 Amps Battery Charging Alternator



28V Negative



TECHNOPOWER FZC

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

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ALTERNATOR SPECIFICATIONS

Manufacturer Leroy Somer

Model TAL047A

No of Bearings 1

Insulation Class H

Wires 6(12)

Ingress Protection Rating IP 23

AVR Model R150

Over speed (rpm) 2250

Voltage Regulation(steady state) +/- 0.8%

Waveform: NEMA = TIF < 50

Waveform: I.E.C. = THF < 2%

Winding pitch 2/3

Excitation System SHUNT

Radio Interference Supression is in line with European Standard EN61000-6

IP23 Protection

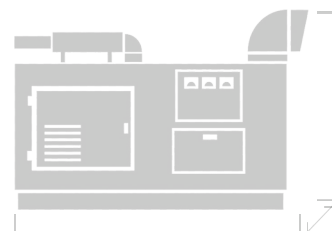
H Class Insulation

SHUNT Excitation System

WEIGHT AND DIMENSIONS



| | | OPEN | CLOSE |
|--------|----|------|--------|
| LENGTH | mm | 3530 | 4306 |
| WIDTH | mm | 1286 | 1606 |
| HEIGHT | mm | 1938 | 2251.8 |
| WEIGHT | kg | 2780 | 3741 |



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Fuel Filter Type

Replaceable Element

Recommended Fuel

Class A2 Diesel

Fuel Tank Capacity

390 L

FUEL CONSUMPTION (L/hr)

50Hz



100%
of Prime



80%
of Prime

60Hz



100%
of Prime



80%
of Prime

FUEL SYSTEM

EXHAUST

| | | 50Hz | | 60Hz | |
|--------------------------------|-----------|------------|----------|----------|----------|
| SILENCER TYPE | | INDUSTRIAL | | | |
| SILENCER NOISE REDUCTION LEVEL | | 22dB | | 22dB | |
| MAX. ALLOWABLE BACK PRESSURE | kPa(mbar) | 5(50) | | 5(50) | |
| | | PRIME | STANDBY | PRIME | STANDBY |
| EXHAUST GAS FLOW | kg/hr | 2210 | 2210 | 2463 | 2463 |
| EXHAUST GAS TEMPERATURE | °C (°F) | 445(833) | 445(833) | 450(842) | 450(842) |

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) | 1770(2131) | 1770(2131) | 1974(2376) | 1974(2376) |
| | 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 | 35.0 |
| Oil Pan | L | 27.0 |
| Oil Type | ACEA E3/E5 | |

COOLING SYSTEM

| | | 50Hz | 60Hz |
|---|-------------------|-------------|------|
| Water Pump Type | | Centrifugal | |
| Cooling System Capacity | L | 68.0 | 68.0 |
| Power Consumption | kWm | 15.0 | 25.0 |
| Radiator Cooling Airflow | m ³ /s | 6.8 | 8.5 |
| External Restriction to Cooling Airflow | Pa | 196 | 196 |



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TECHNOPOWER



AUTHORISED GOLD DISTRIBUTOR



DSE Genset®



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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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