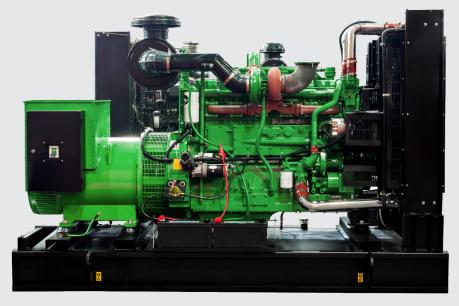
FUCHTARDT



FT SERIES

Staionary & Standby Application

In a prime mobile application, the generator is the sole source of power but it will also be moved from site to site on a regular basis. Generators used for construction or rental are good examples of this. Once again, because this is a prime (running) application, fuel efficiency is the key to cost savings but because the generator will be routinely relocated, a robust build and canopy design is essential to the longevity of the machine.

How to choose a generator if you have a prime mobile application: Sizing and Engine selection are paramount to cost savings once again but the generators life will be shortened significantly if a heavy duty base and canopy is not selected.

Standby

In a prime mobile application, the generator is the sole source of power but it will also be moved from site to site on a regular basis. Generators used for construction or rental are good examples of this. Once again, because this is a prime (running) application, fuel efficiency is the key to cost savings but because the generator will be routinely relocated, a robust build and canopy design is essential to the longevity of the machine.

How to choose a generator if you have a prime mobile application: Sizing and Engine selection are paramount to cost savings once again but the generators life will be shortened significantly if In a prime mobile application, the generator is the sole source of power but it will also be moved from site to site on a regular basis. Generators used for construction or rental are good examples of this. Once again, because this is a prime (running) application, fuel

efficiency is the key to cost savings but because the generator will be routinely relocated, a robust build and canopy design is essential to the longevity of the machine.

How to choose a generator if you have a prime mobile application: Sizing and Engine selection are paramount to cost

Stationary

In a prime mobile application, the generator is the sole source of power but it will also be moved from site to site on a regular basis. Generators used for construction or rental are good examples of this. Once again, because this is a prime (running) application, fuel efficiency is the key to cost savings but because the generator will be routinely relocated, a robust build and canopy design is essential to the longevity of the machine.

How to choose a generator if you have a prime mobile application: Sizing and Engine selection are paramount to cost savings once again but the generators life will be shortened significantly if



| GENERAL | FT 10-KU | FT 18-KU | FT 22-KU | FT 33-KU | |
|-----------------------------------|----------------------------|--------------------------|-------------------------------|--------------------------|--|
| Rated Power (kVA) | | | | | |
| prime standby | 9kVA 10kVA | 15kVA 16.5kVA | 20kVA 22kVA | 30kVA 33kVA | |
| Frequency (Hz) | 50 | 50 | 50 | 50 | |
| Engine Model | D1105-BG-ES01 (Kubota) | D1703-BG-EU1 (Kubota) | V2203-BG-ES03 (Kubota) | V3300-BG-EU1 (Kubota | |
| Engine Speed (RPM) | 1500 | 1500 | 1500 | 1500 | |
| Phase | 3 | 3 | 3 | 3 | |
| PF | 0.8 | 0.8 | 0.8 | 0.8 | |
| Control System | Digital | Digital | Digital | Digital | |
| Rated voltage (V) | 415 / 240 | 415 / 240 | 415 / 240 | 415 / 240 | |
| Fuel tank capacity operating | 1.3 @ 50% 1.9 @ 75% | 1.9 @ 50% 2.8 @ 75 | % 2.5 @ 50% 3.8 @ 75% | 3.6 @ 50% 5.3 @ 75% | |
| time % (L/h) | 2.6 @ 100% 2.9 @ 110% | 3.7 @ 100% 4.1 @ 110 |)% 5.0 @ 100% 5.5 @ 110% | 7.1 @ 100% 7.8 @ 1109 | |
| Dimensions (IXWXH) mm | 1850 x 770 x 1130 | 2000 x 930 x 1230 | 2200 x 966 x 1425 | 2200 x 980 x 1270 | |
| Dry weight (kg) | 680 | 920 | 1000 | 1100 | |
| Tank capacity (L) | 40 | 50 | 70 | 80 | |
| The loading capacity (40'HC) | 36 units | 24 units | 12 units | 24 units | |
| ENGINE | | | | | |
| Emission Certification | Tier II | Tier II | Tier II | Tier II | |
| Number of cylinders | 3 | 3 | 4 | 4 | |
| Cylinder arrangement | In-line | In-line | In-line | In-line | |
| Cycle | Four stroke | Four stroke | Four stroke | Four stroke | |
| Aspiration | Naturally aspirated | Naturally aspirated | Naturally aspirated | Naturally aspirated | |
| Bore x Stroke | 78 x 78.4 mm | 87 x 92.4 mm | 87 x 92.4 mm | 98 x 110 mm | |
| Displacement | 1.123 L | 1.647 L | 2.197 L | 3.318 L | |
| Compression ration | 24:1 | 23.0:1 | 23:1 | 22.6:1 | |
| Speed governor | Mechanical | Mechanical | Mechanical | Mechanical | |
| Cooling system | Forced Water Cooling Cycle | Forced Water Cooling Cyc | le Forced Water Cooling Cycle | Forced Water Cooling Cyc | |
| Frequency droop | ≤ 5% | ≤ 5% | ≤ 5% | ≤ 5% | |
| Total lubrication system capacity | 5.1 L | 7.6 L | 9.7 L | 13.2 L | |
| Coolant capacity | 8 L | 17 L | 20 L | 24 L | |
| Fuel consumption (100% load) | 279 g/kWh @1500 rpm | 260 g/kWh @1500 rpm | 262 g/kWh @1500 rpm | 243 g/kWh @1500 rpm | |
| Charge alternator | DC 12V | DC 12V | DC 12V | DC 12V | |
| ALTERNATOR | | | | | |
| Number of phase | 3 | 3 | 3 | 3 | |
| Power factor (Cos Phi) | 0.8 | 0.8 | 0.8 | 0.8 | |
| Poles | 4 | 4 | 4 | 4 | |
| Insulation type | H class | H class | H class | H class | |
| Winding Pitch | 2/4 | 2/3 | 2/3 | 2/14 | |
| IP rating | IP24 | IP23 | IP23 | IP34 | |
| Bearing | Single bearing | Single bearing | Single bearing | Single bearing | |
| Voltage regulator | A.V.R | A.V.R | A.V.R | A.V.R | |
| Coupling | Flexible disc | Flexible disc | Flexible disc | Flexible disc | |



| GENERAL | FT 40-KU | | FT 55-DE | | FT 70-DE | | FT 110-IV | |
|-----------------------------------|----------------------------|--------------|---------------------|----------------|---------------------|------------|----------------------------|----------------|
| Rated Power (kVA) | | | | | | | | |
| prime standby | 37kVA 40.7kVA | | 15kVA | 16.5kVA | 20kVA | 22kVA | 100kVA | 110kVA |
| Frequency (Hz) | 50 | | 50 | | 50 | 0 | 50 | |
| Engine Model | V3300-T-BG-E | S02 (Kubota) | F6L912 (Deutz) | | F6L912T (Deutz) | | NEF45TM2A (FPT) | |
| Engine Speed (RPM) | 150 | 00 | 150 | 1500 | | 00 | 1500 | |
| Phase | 3 | | 3 | | 3 | | 3 | |
| PF | 0. | 8 | 0.8 | | 0.8 | | 0.8 | |
| Control System | Dig | ital | Digital | | Digital | | Digital | |
| Rated voltage (V) | 415 / | 240 | 415 / 240 | | 415 / 240 | | 415 / 240 | |
| Fuel tank capacity operating | 4.2 @ 50% | 6.3 @ 75% | 6.5 @ 50% | 9.7 @ 75% | 8.2 @ 50% | 12.3 @ 75% | 11 @ 50% | 16.2 @ 759 |
| time % (L/h) | 8.4 @ 100% | 9.2 @ 110% | 12.9 @ 100% | 14.2 @ 110% | 16.4 @ 100% | 18 @ 110% | 22 @ 100% | 24.4 @ 110% |
| Dimensions (IXWXH) mm | 2200 x 98 | 0 x 1270 | 2750 x 113 | | 2750 x 11 | 30 x 1200 | 3150 x 12 | 43 x 1900 |
| Dry weight (kg) | 11: | 30 | 1380 | | 1380 | | 1780 | |
| Tank capacity (L) | 80 | 0 | 110 | | 110 | | 560 | |
| The loading capacity (40'HC) | 11 u | nits | 8 units | | 8 units | | 3 units | |
| ENGINE | | | | | | | | |
| Emission Certification | Tier II | | Tier II | | Tier II | | Stage II | |
| Number of cylinders | 4 | | 6 | | 6 | | 4 | |
| Cylinder arrangement | In-line | | In-line | | In-line | | In-line | |
| Cycle | Four stroke | | Four stroke | | Four stroke | | Four stroke | |
| Aspiration | Turbocharged | | Naturally aspirated | | Turbocharged | | Turbocharged | |
| Bore x Stroke | 98 x 110 mm | | 100 x 120 mm | | 100 x 120 mm | | 104 x 132 mm | |
| Displacement | 3.31 | 8 L | 5.655 L | | 5.655 L | | 4.5 L | |
| Compression ration | 21. | 8:1 | 17:1 | | 17:1 | | 17.5:1 | |
| Speed governor | Mecha | anical | Mechanical | | Mechanical | | Mechanical | |
| Cooling system | Forced Water Cooling Cycle | | Air cooled | | Air cooled | | Forced Water Cooling Cycle | |
| Frequency droop | ≤ 5 | 5% | ≤ 5% | | ≤ 5% | | ≤ 5% | |
| Total lubrication system capacity | 13. | 2 L | 14 L | | 14 L | | 12.8 L | |
| Coolant capacity | 24 | · L | NA | | NA | | 18.5 L | |
| Starter motor | 236 g/kWh @1500 rpm | | 228 g/kWh @1500 rpm | | 228 g/kWh @1500 rpm | | DC 12V | |
| Charge alternator | DC ² | 12V | DC 12V | | DC 12V | | DC 14V | |
| ALTERNATOR | | | | | | | | |
| Number of phase | 3 | | 3 | | 3 | | 3 | |
| Power factor (Cos Phi) | 0.8 | | 0.8 | | 0.8 | | 0.8 | |
| Poles | 4 | | 4 | | 4 | | 4 | |
| Insulation type | H class | | H class | | H class | | H class | |
| Winding Pitch | 2/8 | | 2/3 | | 2/3 | | 2/3 | |
| IP rating | IP28 | | IP23 | | IP23 | | IP23 | |
| Bearing | Single bearing | | Single bearing | | Single bearing | | Single bearing | |
| Voltage regulator | A.V.R | | A.V.R | | A.V.R | | A.V.R | |
| Coupling | Flexible disc | | Flexible | e disc | Flexible disc | | Flexible disc | |



| GENERAL | FMP165-V0 | | FMP220-VO | | FMP275-VO | | FT 350-VO | | |
|---|-----------------|----------------|----------------------------|----------------|----------------------------|----------------|-------------------|----------------|--|
| Rated Power (kVA) | | | | | | | | | |
| prime standby | 160kVA | 176kVA | 200kVA | 220kVA | 250kVA | 275kVA | 315kVA | 347kVA | |
| Frequency (Hz) | 50 | | 50 | | 5 | 50 | 50 | | |
| Engine Model | NEF45TM2A (FPT) | | TAD733GE | | TAD734GE | | TAD1341GE (VOLVO) | | |
| Engine Speed (RPM) | 15 | 00 | 150 | 00 | 15 | 500 | 1500 | | |
| Phase | 3 | 3 | 3 | | 3 | | 3 | | |
| PF | 0. | 8 | 0.8 | | 0.8 | | 0. | 8 | |
| Control System | Dig | ital | Digital | | Digital | | Digital | | |
| Rated voltage (V) | 415 / | 240 | 415 / 240 | | 415 / 240 | | 415 / 240 | | |
| Fuel tank capacity operating time % (L/h) | 18 @ 50% | 29 @ 75% | 22.3 @ 50% | 33.4 @ 75% | 25.6 @ 50% | 38.4 @ 75% | 30.5 @ 50% | 45.7 @ 75 | |
| time % (L/h) | 36 @ 100% | 39 @ 110% | 44.5 @ 100% | 49 @ 110% | 51.2 @ 100% | 56.3 @ 110% | 60.9 @ 100% | 67 @ 1109 | |
| Dimensions (IXWXH) mm | 3600 x 13 | 35 x 2230 | 3600 x 1335 x 2300 | | 3800 x 14 | 166 x 2400 | 4250 X 14 | 22 X 2110 | |
| Dry weight (kg) | 25 | 80 | 2700 | | 33 | 350 | 450 | 00 | |
| Tank capacity (L) | 90 | 00 | 1030 | | 13 | 330 | 580 | | |
| The loading capacity (40'HC) | 3 ur | nits | 3 units | | 3 u | nits | 2 units | | |
| _ | | | | | | | | | |
| ENGINE | | | | | | | | | |
| Emission Certification | Stage II | | Stage II | | Stage II | | Stage II | | |
| Number of cylinders | 6 | | 6 | | 6 | | 6 | | |
| Cylinder arrangement | In-line | | In-line | | In-line | | In-line | | |
| Cycle | Four stroke | | Four stroke | | Four stroke | | Four stroke | | |
| Aspiration | Turboc | _ | Turbocharged | | Turbocharged | | Turbocharged | | |
| Bore x Stroke | 104 x 1 | 32 mm | 108 x 130 mm | | 108 x 130 mm | | 131 x 158 mm | | |
| Displacement | 6.7 | | 7.15 L | | 7.15 L | | 12.78 L | | |
| Compression ration | 17. | | 181 | | 17:1 | | 18.1:1 | | |
| Speed governor | | anical | Electr | | EMS | | ECM | | |
| Cooling system | Forced Water | Cooling Cycle | Forced Water Cooling Cycle | | Forced Water Cooling Cycle | | | | |
| Frequency droop | ≤ 5 | 5% | ≤ 3% | | ≤ 1% | | ≤ 1% | | |
| Total lubrication system | | 2 L | 34 L | | 29 L | | 36 L | | |
| Coolant capacity | 25. | | 27.3 L | | 24 L | | 24 L | | |
| Starter motor | | 12V | DC 24V | | DC 24V | | DC 24V | | |
| Charge alternator | DC | 14V | DC 24V | | DC 24V | | DC 24V | | |
| ALTERNATOR | | | | | | | | | |
| Number of phase | 3 | 3 | 3 | | 3 | | 3 | | |
| Power factor (Cos Phi) | 0.8 | | 0.8 | | 0.8 | | 0.8 | | |
| Poles | 4 | | 4 | | 4 | | 4 | | |
| Insulation type | H class | | H class | | H class | | H class | | |
| Winding Pitch | 2, | /3 | 2/11 | | 2/12 | | 2/9 | | |
| IP rating | IP | | IP31 | | IP32 | | IP29 | | |
| Bearing | Single b | Single bearing | | Single bearing | | Single bearing | | Single bearing | |
| Voltage regulator | A.\ | | A.V.R | | A.V.R | | A.V.R | | |
| Coupling | Flexib | le disc | Flexible disc | | Flavih | Flexible disc | | le disc | |



| GENERAL | FT 400-VO | | FT 550-VO | | FT 650-VO | | |
|---|--------------------|---------------|----------------------------|-------------|----------------------------|--------------------|--|
| Rated Power (kVA) | | | | | | | |
| prime standby | 350kVA | 385kVA | 500KVA | 550KVA | 590kVA | 649kVA | |
| Frequency (Hz) | 50 | | 50 | 0 | 5 | 0 | |
| Engine Model | CURSOR13TE2A (FPT) | | TAD1641GE (VOLVO) | | TAD1642GE (VOLVO) | | |
| Engine Speed (RPM) | 150 | 00 | 150 | 1500 | | 000 | |
| Phase | 3 | 3 | 3 | | 3 | | |
| PF | 0. | 8 | 0.8 | | 0.8 | | |
| Control System | Dig | ital | Digital | | Digital | | |
| Rated voltage (V) | 415/ | 240 | 415 / 240 | | 415 / 240 | | |
| Fuel tank capacity operating time % (L/h) | 38.8 @ 50% | 57.3 @ 75% | 50.4 @ 50% | 75.6 @ 75% | 63@ 50% | 94.5 @ 75% | |
| time % (L/h) | 70 @ 100% | 77.9 @ 110% | 100.8 @ 100% | 110.1@ 110% | 126 @ 100% | 138.6@ 1109 | |
| Dimensions (IXWXH) mm | 4300 X 15 | 72 X 2261 | 4600 X 16 | 72 X 2261 | 4600 X 16 | 4600 X 1672 X 2261 | |
| Dry weight (kg) | 4210 | | 52. | 50 | 5400 | | |
| Tank capacity (L) | 66 | 50 | 75 | 50 | 7. | 50 | |
| The loading capacity (40'HC) | 2 ur | nits | 2 ur | nits | 2 units | | |
| ENGINE | | | | | | | |
| Emission Certification | Stage II | | Stage II | | Stage II | | |
| Number of cylinders | 6 | | 6 | | 6 | | |
| Cylinder arrangement | In-line | | In-line | | In-line | | |
| Cycle | Four stroke | | Four stroke | | Four stroke | | |
| Aspiration | Turbocharged | | Turbocharged | | Turbocharged | | |
| Bore x Stroke | 135 x 150 mm | | 144 x 165 mm | | 144 x 1 | 165 mm | |
| Displacement | 12.88 L | | 16.12 L | | 16.12 L | | |
| Compression ration | 16. | 5:1 | 16.5□1 | | 16.5:1 | | |
| Speed governor | EC | CU | EMS | | EMS | | |
| Cooling system | Forced Water | Cooling Cycle | Forced Water Cooling Cycle | | Forced Water Cooling Cycle | | |
| Frequency droop | ≤ 3 | 3% | ≤ 1% | | ≤ 1% | | |
| Total lubrication system capacity | 35 | S L | 48 L | | 48 L | | |
| Coolant capacity | 67 L | | 60 |) L | 60 L | | |
| Starter motor | DC | 24V | DC 24V | | DC 24V | | |
| Charge alternator | DC: | 24V | DC 24V | | DC 24V | | |
| ALTERNATOR | | | | | | | |
| Number of phase | 3 | | 3 | | 3 | | |
| Power factor (Cos Phi) | 0. | 8 | 0.8 | | 0.8 | | |
| Poles | 4 | | 4 | | 4 | | |
| Insulation type | H class | | H class | | H class | | |
| Winding Pitch | 2/7 | | 2/16 | | 2/10 | | |
| IP rating | IP27 | | IP36 | | IP30 | | |
| Bearing | Single bearing | | Single bearing | | Single bearing | | |
| Voltage regulator | A.V.R | | A.V.R | | A.V.R | | |
| Coupling | Flexible disc | | Flexible disc | | Flexible disc | | |



DSE Controller Benefits

- Auto Start and AMF mode in one module.
- J1939-75 support and CAN alarm ignore function.
- 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
- Compatible with 600 V ph to ph nominal systems.
- Generator/load power monitoring (kW, kVA, kVar, PF).
- Accumulated power monitoring (kWh, kVAh, kVarh).
- Generator overload protection.
- Generator/load current monitoring and protection.
- Fuel and start outputs (configurable when using CAN).
- 4 configurable DC outputs.
- 3 configurable analogue/digital inputs



- Ultimate size to feature ratio.
- Automatically transfers between mains (utility) and generator.
- 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.
- Compatible with a wide range of CAN engines including Tier 4.
- IP65 rating (with optional gasket) offers increased resistance to water ingress.

THINK FUCHTARDT THE NEXT TIME YOU PICK UP THE PHONE

