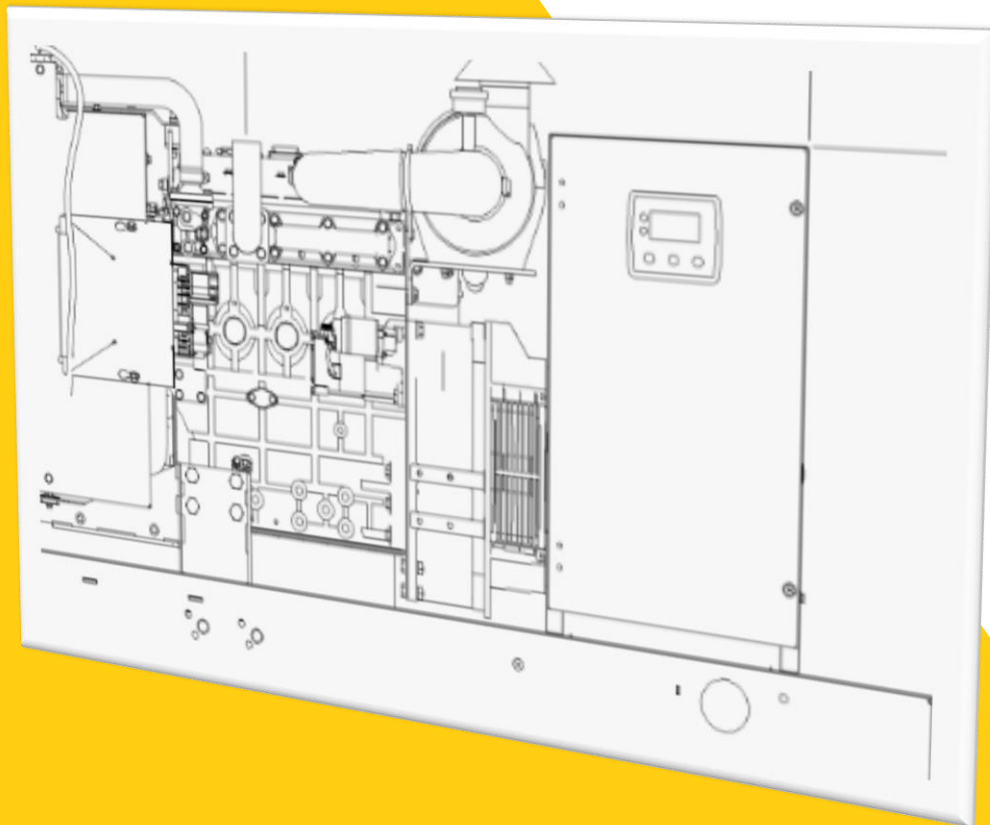


CAT B SERIES

אמין יותר, לאורך זמן.



TCP 1000



The TCP 1000 is a compact Auto Mains (Utility) Failure Control Module that has been developed to provide an outstanding range of features. Monitoring engine speed, oil pressure, coolant temperature, frequency, voltage, current, power and fuel level, the modules will give comprehensive engine and alternator protection. This will be indicated on a large back-lit LCD icon display via an array of warning, electrical trip and shutdown alarms.

Features

- Large back-lit icon LCD display
- Heated display option
- 3-phase generator sensing
- 3-phase generator and mains (utility) sensing
- 600 V ph-ph nominal system compatibility
- Generator & load power monitoring (kW, kV A, kV Ar, pf)
- Generator overload protection (kW)
- Configurable inputs & outputs
- Fuel and start outputs (configurable on CAN)
- Configurable DC, volt-free and staged loading outputs
- CAN & alternator speed sensing
- Engine speed protection, engine hours counter, engine pre-heat, engine run-time scheduler, engine idle control for start/stop
- Battery voltage monitoring
- Configurable event log (50)
- Configuration Suite PC Software

Benefits

- Displays information to the operator in a clear and concise format
- Ensures the display continues to operate in extreme cold weather conditions
- Provides true generator sensing
- Provides true generator and mains (utility) sensing
- Provides global flexibility
- Provides clear accurate power measurement information.
- Provides engine overload protection
- Provides multiple installation options
- Provides full monitoring flexibility
- Ensures the engine is fully monitored for improved operating performance
- Ensures the battery maintains enough power at all times
- Provides access to historical alarms and operational status
- Provides complete user-friendly configuration and easy-to-use high-level system control & monitoring

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TCP 2000

The TCP 2000 is an Auto Start Control Module suitable for a wide variety of single, diesel or gas, generator set applications.

A sophisticated module monitoring an extensive number of engine parameters, the TCP 2000 will annunciate warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LED, remote PC, and audible alarms. The module includes RS232, RS485 & Ethernet ports as well as dedicated terminals for system expansion.

TCP 2000 control panels are compatible with electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engines and offer a comprehensive number of flexible inputs, outputs and extensive engine protections so the system can be easily adapted to meet industry requirements. They can be easily configured using the DSE Configuration Suite Software. Selected front panel editing is also available.

Features

- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- Customisable status screens
- Power save mode
- 11 configurable inputs
- 8 configurable outputs
- Flexible sensor inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Tier 4 CAN engine support
- Integral PLC editor
- Easy access diagnostic page
- CAN and Magnetic Pick-up/Alt. sensing
- Fuel usage monitor and low fuel alarms
- Charge alternator failure alarm
- Manual speed control (on compatible CAN engines)
- Manual fuel pump control
- Engine exerciser
- "Protections disabled" feature
- kW protection
- Reverse power (kW) protection
- LED and LCD alarm indication
- Power monitoring (kW h, kV Ar, kV A h, kV Ar h)
- Load switching (load shedding and dummy load outputs)
- Unbalanced load protection
- Independent Earth Fault trip
- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configuration Suite PC software
- Configurable display languages
- Remote SCADA monitoring via DSE Configuration Suite PC software
- User selectable simultaneous RS232, RS485 & Ethernet communications
- Configurable MODBUS pages
- MODBUS RTU & TCP support
- Advanced SMS messaging (additional external modem required)
- Additional display screens to help with modem diagnostics
- Idle control for starting
- 20 parameter data logging

Benefits

- 132 x 64 pixel ratio display for clarity
- Real-time clock provides accurate event logging
- Multiple date and time scheduler
- Set maintenance periods can be configured to maintain optimum engine performance
- Built in ethernet communications provides advanced remote monitoring
- Modules can be integrated into building management systems (BMS) using MODBUS
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- PLC editor allows user configurable functions to meet specific application requirements
- Data logging to assist with fault finding

Specifications

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

MAXIMUM OPERATING CURRENT

260 mA at 12 V, 130 mA at 24 V

MAXIMUM STANDBY CURRENT

120 mA at 12 V, 65 mA at 24 V

CHARGE FAIL/EXCITATION RANGE

0 V to 35 V

OUTPUTS

OUTPUT A (FUEL)

15 A DC at supply voltage

OUTPUT B (START)

15 A DC at supply voltage

OUTPUTS C & D

8 AAC at 250 V AC (Volt free)

AUXILIARY OUTPUTS E,F,G,H,I & J

2 A DC at supply voltage

GENERATOR VOLTAGE RANGE

15 V to 333 V AC (L-N)

FREQUENCY RANGE

3.5 Hz to 75 Hz

FREQUENCY RANGE

3.5 Hz to 75 Hz

BUS (DSE7410) VOLTAGE RANGE

15 V to 333 V AC (L-N)

FREQUENCY RANGE

3.5 Hz to 75 Hz

MAGNETIC PICK UP VOLTAGE RANGE

+/- 0.5 V to 70 V

FREQUENCY RANGE

10,000 Hz (max)

OVERALL DIMENSIONS

240 mm x 181 mm x 42 mm

9.4" x 6.8" x 1.6"

PANEL CUTOUT

220 mm x 160 mm

8.7" x 6.3"

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

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TCP 3000

The TCP 3000 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, generator set applications.

A sophisticated module monitoring an extensive number of engine parameters, the TCP 3000 will annunciate warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LED, remote PC, and audible alarms. The module includes RS232, RS485 & Ethernet ports as well as dedicated terminals for system expansion.

The TCP 3000 Series modules are compatible with electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engines and offer a comprehensive number of flexible inputs, outputs and extensive engine protections so the system can be easily adapted to meet industry requirements.

The modules can be easily configured using the DSE Configuration Suite Software. Selected front panel editing is also available.

Features

- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- Customisable status screens
- Power save mode
- 11 configurable inputs
- 8 configurable outputs
- Flexible sensor inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Tier 4 CAN engine support
- Integral PLC editor
- Easy access diagnostic page
- CAN and Magnetic Pick-up/Alt. sensing
- Fuel usage monitor and low fuel alarms
- Charge alternator failure alarm
- Manual speed control (on compatible CAN engines)
- Manual fuel pump control
- Engine exerciser
- "Protections disabled" feature
- kW protection
- Reverse power (kW) protection
- LED and LCD alarm indication
- Power monitoring (kW h, kV Ar, kV A h, kV Ar h)
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer
- Unbalanced load protection
- Independent Earth Fault trip
- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configuration Suite PC software
- Configurable display languages
- Remote SCADA monitoring via DSE Configuration Suite PC software
- User selectable simultaneous RS232, RS485 & Ethernet communications
- Configurable MODBUS pages
- MODBUS RTU & TCP support
- Advanced SMS messaging (additional external modem required)
- Additional display screens to help with modem diagnostics
- Idle control for starting
- 20 parameter data logging

Benefits

- 132 x 64 pixel ratio display for clarity
- Real-time clock provides accurate event logging
- Multiple date and time scheduler
- Set maintenance periods can be configured to maintain optimum engine performance
- Built in ethernet communications provides advanced remote monitoring
- Modules can be integrated into building management systems (BMS) using MODBUS
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- PLC editor allows user configurable functions to meet specific application requirements
- Data logging to assist with fault finding

Specifications

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

MAXIMUM OPERATING CURRENT

260 mA at 12 V, 130 mA at 24 V

MAXIMUM STANDBY CURRENT

120 mA at 12 V, 65 mA at 24 V

CHARGE FAIL/EXCITATION RANGE

0 V to 35 V

OUTPUTS

OUTPUT A (FUEL)

15 A DC at supply voltage

OUTPUT B (START)

15 A DC at supply voltage

OUTPUTS C & D

8 A AC at 250 V AC (Volt free)

AUXILIARY OUTPUTS E,F,G,H,I & J

2 A DC at supply voltage

GENERATOR VOLTAGE RANGE

15 V to 333 V AC (L-N)

FREQUENCY RANGE

3.5 Hz to 75 Hz

FREQUENCY RANGE

3.5 Hz to 75 Hz

BUS (DSE7410) VOLTAGE RANGE

15 V to 333 V AC (L-N)

FREQUENCY RANGE

3.5 Hz to 75 Hz

MAGNETIC PICK UP VOLTAGE RANGE

+/- 0.5 V to 70 V

FREQUENCY RANGE

10,000 Hz (max)

OVERALL DIMENSIONS

240 mm x 181 mm x 42 mm

9.4" x 6.8" x 1.6"

PANEL CUTOUT

220 mm x 160 mm

8.7" x 6.3"

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

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Picture shown may not represent actual configuration

Sound Attenuated Enclosures Level 1, Level 2 & Level 3

6.8 – 22 kVA (B Series) Range

The compact design of the 6.8 – 22 kVA SA Level 1, Level 2 and Level 3 enclosures range provides the flexibility of optimum sound attenuation depending on requirements. Designed on modular principles, the enclosures will have lift off doors or vertically hinged doors providing optimal service and maintenance access.

The enclosures are constructed with galvanised steel, designed to resist corrosion and handling damage. Developed through continuing research and development by our specialist engineers, the enclosures are weather protective and incorporate internally mounted exhaust silencers.

All of the sound attenuated enclosures reduce sound levels to comply with the stage II levels of the European Community Directive 2000/14/EC, effective from 3 January 2006.

Features

Durable and Robust Construction

- Galvanised steel protected by powder coat paint
- Single piece roof structure
- Baseframe extends beyond enclosure protecting against handling damage
- Black finish stainless steel locks and hinges
- Zinc plated / stainless steel fasteners

Excellent Service and Maintenance Access

- Optional side hinged doors on both sides of the enclosure
- Optional lift off only doors on both sides of the enclosure
- Coolant drain piped to baseframe, exterior to the enclosure

Security and Safety

- Control panel viewing via large viewing window
- Emergency stop push button mounted on enclosure exterior
- Cooling fan and battery charging alternator fully guarded
- Exhaust silencing system totally enclosed for operator safety

Transportability

- Drag points on baseframe facilitating handling from both sides

Sound Pressure Levels (dBA) – SA Level 1

Generating Set Model	Duty	50 Hz						60 Hz					
		15 m		7 m		1 m		15 m		7 m		1 m	
		75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load
DE9.5E3	Prime	65	66	71	72	82	84	68	69	74	75	85	87
	Standby	65	67	71	73	82	85	68	70	74	76	85	87
DE9.5E3 (EUR1)	Prime	65	66	71	72	82	84	68	69	74	75	85	87
	Standby	65	67	71	73	82	85	68	70	74	76	85	87
DE13.5E3	Prime	65	67	71	73	83	84	70	71	76	77	86	88
	Standby	65	68	71	74	83	85	70	72	76	78	87	88
DE16E0	Prime	66	69	72	75	84	85	–	–	–	–	–	–
	Standby	67	70	73	76	84	86	–	–	–	–	–	–
DE18E3	Prime	64	66	70	72	80	82	67	69	73	75	84	85
	Standby	64	66	70	72	81	83	68	69	74	75	84	86
DE22E3	Prime	65	67	71	73	82	84	68	69	74	75	84	86
	Standby	66	69	72	75	82	86	68	70	74	76	85	87
DE7.5E3S	Prime	65	66	71	72	82	84	68	69	74	75	85	87
	Standby	65	67	71	73	82	85	68	70	74	76	85	87
DE11E3S	Prime	65	67	71	73	83	84	70	71	76	77	86	88
	Standby	66	68	72	74	83	85	70	72	76	78	87	88
DE14E3S	Prime	64	66	70	72	80	82	67	68	73	74	84	85
	Standby	64	66	70	72	81	83	68	69	74	75	84	86
DE16E3S	Prime	65	67	71	73	81	84	68	69	74	75	84	86
	Standby	65	68	71	74	82	85	68	70	74	76	85	87

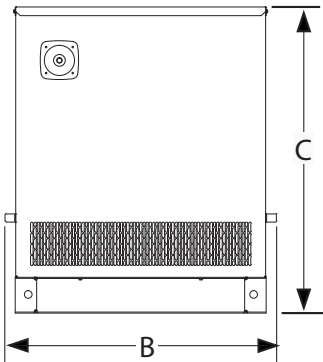
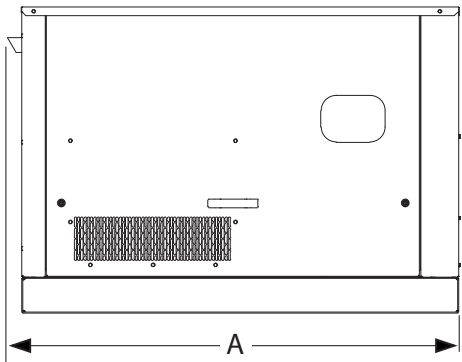
Sound Pressure Levels (dBA) – SA Level 2

Generating Set Model	Duty	50 Hz						60 Hz					
		15 m		7 m		1 m		15 m		7 m		1 m	
		75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load
DE9.5E3	Prime	54	55	60	61	70	71	57	58	63	64	72	73
	Standby	55	56	61	62	70	72	57	58	63	64	72	74
DE9.5E3 (EUR1)	Prime	54	55	60	61	70	71	57	58	63	64	72	73
	Standby	55	56	61	62	70	72	57	58	63	64	72	74
DE13.5E3	Prime	55	56	61	62	71	72	58	59	64	65	73	73
	Standby	55	56	61	62	71	72	58	59	64	65	73	74
DE16E0	Prime	55	57	61	63	71	72	–	–	–	–	–	–
	Standby	56	58	62	64	72	73	–	–	–	–	–	–
DE18E3	Prime	57	58	63	64	74	74	60	61	66	67	76	76
	Standby	57	59	63	65	74	75	60	61	66	67	76	76
DE22E3	Prime	58	60	64	66	74	75	60	61	66	67	76	76
	Standby	58	61	64	67	74	76	61	61	67	67	76	76
DE7.5E3S	Prime	54	55	60	61	70	71	57	58	63	64	72	73
	Standby	55	56	61	62	70	72	57	58	63	64	72	74
DE11E3S	Prime	55	56	61	62	71	72	58	59	64	65	73	73
	Standby	55	57	61	63	71	72	58	59	64	65	73	74
DE14E3S	Prime	57	58	63	64	74	74	60	61	66	67	76	76
	Standby	57	59	63	65	74	75	60	61	66	67	76	76
DE16E3S	Prime	57	59	63	65	74	75	60	61	66	67	76	76
	Standby	58	60	64	66	74	76	61	61	67	67	76	76

Sound Pressure Levels (dBA) – SA Level 3

Generating Set Model	Duty	50 Hz						60 Hz					
		15 m		7 m		1 m		15 m		7 m		1 m	
		75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load
DE9.5E3	Prime	51	52	57	58	70	71	52	53	58	59	68	72
	Standby	51	53	57	59	70	72	52	54	58	60	69	73
DE9.5E3 (EUR1)	Prime	51	52	57	58	70	71	52	53	58	59	68	72
	Standby	51	53	57	59	70	72	52	54	58	60	69	73
DE13.5E3	Prime	52	53	58	59	70	71	53	54	59	60	69	71
	Standby	52	53	58	59	70	72	53	54	59	60	69	72
DE16E0	Prime	52	54	58	60	71	72	–	–	–	–	–	–
	Standby	53	54	59	60	71	72	–	–	–	–	–	–
DE18E3	Prime	53	54	59	60	71	72	54	55	60	61	71	72
	Standby	53	54	59	60	71	73	54	55	60	61	71	73
DE22E3	Prime	54	55	60	61	72	73	54	55	60	61	71	73
	Standby	54	55	60	61	72	74	55	56	61	62	72	74
DE7.5E3S	Prime	51	52	57	58	70	71	52	53	58	59	68	72
	Standby	51	53	57	59	70	72	52	54	58	60	69	73
DE11E3S	Prime	52	53	58	59	70	71	53	54	59	60	69	71
	Standby	52	53	58	59	70	72	53	54	59	60	69	72
DE14E3S	Prime	53	54	59	60	71	72	54	55	60	61	71	72
	Standby	53	54	59	60	71	72	54	55	60	61	71	72
DE16E3S	Prime	53	54	59	60	71	73	54	55	60	61	71	73
	Standby	54	55	60	61	72	73	55	56	61	62	71	74

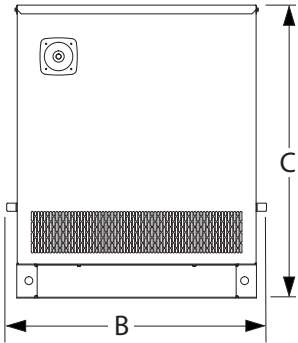
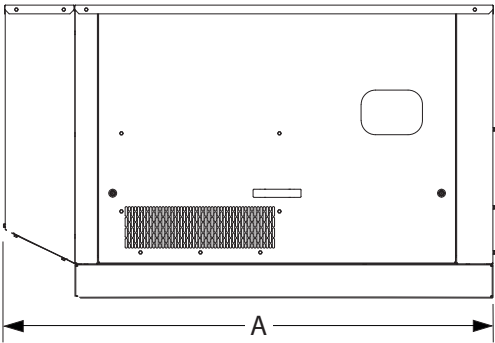
Dimensions and Weights – SA Level 1



Generating Set Model	A: mm (in)	B: mm (in)	C: mm (in)	Weight*: kg (lb)
DE9.5E3	1550 (61.0)	935 (36.8)	1055 (41.5)	340 (750)
DE9.5E3 (EUR1)	1550 (61.0)	935 (36.8)	1055 (41.5)	347 (765)
DE13.5E3	1550 (61.0)	935 (36.8)	1055 (41.5)	417 (919)
DE16E0	1550 (61.0)	935 (36.8)	1055 (41.5)	444 (979)
DE18E3	1550 (61.0)	935 (36.8)	1055 (41.5)	481 (1060)
DE22E3	1550 (61.0)	935 (36.8)	1055 (41.5)	494 (1089)
DE7.5E3S	1550 (61.0)	935 (36.8)	1055 (41.5)	347 (766)
DE11E3S	1550 (61.0)	935 (36.8)	1055 (41.5)	424 (935)
DE14E3S	1550 (61.0)	935 (36.8)	1055 (41.5)	486 (1071)
DE16E3S	1550 (61.0)	935 (36.8)	1055 (41.5)	494 (1089)

*Net weight with lube oil, and coolant, no fuel.

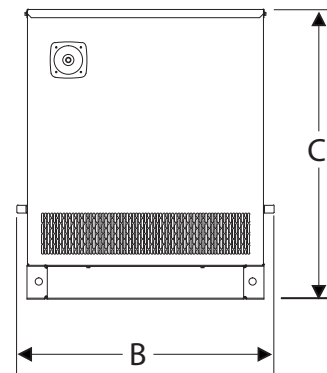
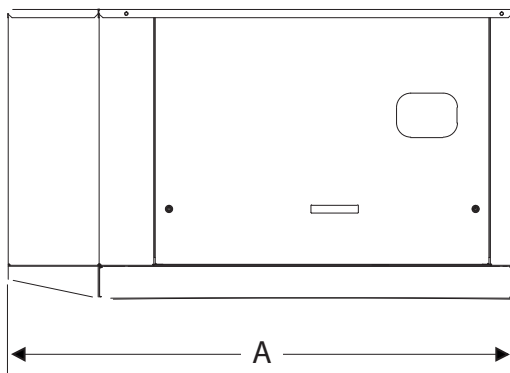
Dimensions and Weights – SA Level 2



Generating Set Model	A: mm (in)	B: mm (in)	C: mm (in)	Weight*: kg (lb)
DE9.5E3	1755 (69.1)	935 (36.8)	1055 (41.5)	391 (863)
DE9.5E3 (EUR1)	1755 (69.1)	935 (36.8)	1055 (41.5)	398 (877)
DE13.5E3	1755 (69.1)	935 (36.8)	1055 (41.5)	468 (1032)
DE16E0	1755 (69.1)	935 (36.8)	1055 (41.5)	495 (1091)
DE18E3	1755 (69.1)	935 (36.8)	1055 (41.5)	532 (1173)
DE22E3	1755 (69.1)	935 (36.8)	1055 (41.5)	545 (1202)
DE7.5E3S	1755 (69.1)	935 (36.8)	1055 (41.5)	398 (878)
DE11E3S	1755 (69.1)	935 (36.8)	1055 (41.5)	475 (1047)
DE14E3S	1755 (69.1)	935 (36.8)	1055 (41.5)	537 (1184)
DE16E3S	1755 (69.1)	935 (36.8)	1055 (41.5)	545 (1202)

*Net weight with lube oil, and coolant, no fuel.

Dimensions and Weights – SA Level 3



Generating Set Model	A: mm (in)	B: mm (in)	C: mm (in)	Weight*: kg (lb)
DE9.5E3	1830 (72.0)	935 (36.8)	1055 (41.5)	401 (885)
DE9.5E3 (EUR1)	1830 (72.0)	935 (36.8)	1055 (41.5)	408 (899)
DE13.5E3	1830 (72.0)	935 (36.8)	1055 (41.5)	478 (1054)
DE16E0	1830 (72.0)	935 (36.8)	1055 (41.5)	505 (1113)
DE18E3	1830 (72.0)	935 (36.8)	1055 (41.5)	542 (1195)
DE22E3	1830 (72.0)	935 (36.8)	1055 (41.5)	555 (1224)
DE7.5E3S	1830 (72.0)	935 (36.8)	1055 (41.5)	408 (900)
DE11E3S	1830 (72.0)	935 (36.8)	1055 (41.5)	485 (1069)
DE14E3S	1830 (72.0)	935 (36.8)	1055 (41.5)	547 (1206)
DE16E3S	1830 (72.0)	935 (36.8)	1055 (41.5)	555 (1224)

*Net weight with lube oil, and coolant, no fuel.

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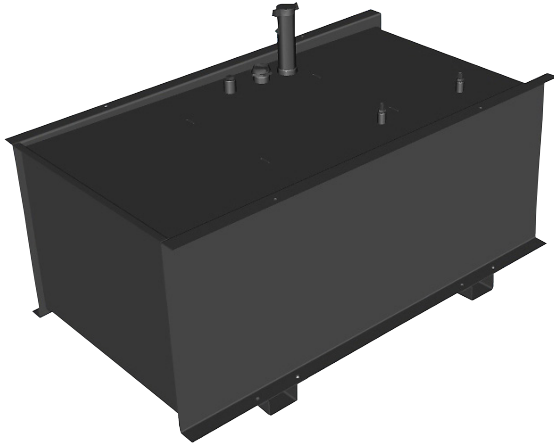


Image shown may not reflect actual package.

Integral and Sub Base Fuel Tanks

6.8 – 22 kVA (B Series)

A range of fuel tanks are available with capacities from 55–1000 litres providing 10–250 hours running at 75% prime on the DE22E3 at 50 Hz. Single and dual wall options are available.

Features

- 3 mm steel construction
- Dual wall tanks have a secondary containment with capacity for 110% of liquids
- All bund joints are fully seam welded
- Polyester powder painted to ensure maximum scuff resistance
- Pressure tested between 4 to 5 psi
- Mechanical direct reading fuel level gauge
- 2 inch (50.8 mm) fuel fill neck
- Breather vent
- Fuel feed and return lines to engine
- Tank baffles

Options

- Low fuel level alarm
- Fuel transfer control

8 Hour Integral Fuel Tank

Generator set model	Fillable capacity Litres (US Gal)	Usable capacity Litres (US Gal)	Length mm (in)	Width mm (in)	Increase in height over skid base model mm (in)	Tank only dry weight kg (lb)	Running time in hours at 75% Prime Rating	
							50 Hz	60 Hz
3 Phase								
DE9.5E3	55 (14.5)	39 (10.3)	1500 (59.1)	865 (34.1)	143 (5.6)	70 (154)	19.5	17.7
DE9.5E3 (EUR1)	55 (14.5)	39 (10.3)	1500 (59.1)	865 (34.1)	143 (5.6)	70 (154)	19.5	17.7
DE13.5E3	55 (14.5)	39 (10.3)	1500 (59.1)	865 (34.1)	143 (5.6)	70 (154)	13.9	12.2
DE16E0	55 (14.5)	39 (10.3)	1500 (59.1)	865 (34.1)	143 (5.6)	70 (154)	13.0	–
DE18E3	55 (14.5)	39 (10.3)	1500 (59.1)	865 (34.1)	143 (5.6)	70 (154)	11.5	9.8
DE22E3	55 (14.5)	39 (10.3)	1500 (59.1)	865 (34.1)	143 (5.6)	70 (154)	10.0	8.7
Single Phase								
DE7.5E3S	55 (14.5)	39 (10.3)	1500 (59.1)	865 (34.1)	143 (5.6)	70 (154)	20.5	17.7
DE11E3S	55 (14.5)	39 (10.3)	1500 (59.1)	865 (34.1)	143 (5.6)	70 (154)	14.4	11.8
DE14E3S	55 (14.5)	39 (10.3)	1500 (59.1)	865 (34.1)	143 (5.6)	70 (154)	11.8	9.5
DE16E3S	55 (14.5)	39 (10.3)	1500 (59.1)	865 (34.1)	143 (5.6)	70 (154)	10.5	8.9

600 Litre Single Wall Sub Base Fuel Tank

Generator set model	Fillable capacity Litres (US Gal)	Usable capacity Litres (US Gal)	Length mm (in)	Width mm (in)	Increase in height over skid base model mm (in)	Tank only dry weight kg (lb)	Running time in hours at 75% Prime Rating	
							50 Hz	60 Hz
3 Phase								
DE9.5E3	600 (158.5)	535 (141.3)	1500 (59.1)	865 (34.1)	605 (23.8)	142 (313)	267.5	243.2
DE9.5E3 (EUR1)	600 (158.5)	535 (141.3)	1500 (59.1)	865 (34.1)	605 (23.8)	142 (313)	267.5	243.2
DE13.5E3	600 (158.5)	535 (141.3)	1500 (59.1)	865 (34.1)	605 (23.8)	142 (313)	191.1	167.2
DE16E0	600 (158.5)	535 (141.3)	1500 (59.1)	865 (34.1)	605 (23.8)	142 (313)	178.3	–
DE18E3	600 (158.5)	535 (141.3)	1500 (59.1)	865 (34.1)	605 (23.8)	142 (313)	157.4	133.8
DE22E3	600 (158.5)	535 (141.3)	1500 (59.1)	865 (34.1)	605 (23.8)	142 (313)	137.2	118.9
Single Phase								
DE7.5E3S	600 (158.5)	535 (141.3)	1500 (59.1)	865 (34.1)	605 (23.8)	142 (313)	281.6	243.2
DE11E3S	600 (158.5)	535 (141.3)	1500 (59.1)	865 (34.1)	605 (23.8)	142 (313)	198.1	162.1
DE14E3S	600 (158.5)	535 (141.3)	1500 (59.1)	865 (34.1)	605 (23.8)	142 (313)	162.1	130.5
DE16E3S	600 (158.5)	535 (141.3)	1500 (59.1)	865 (34.1)	605 (23.8)	142 (313)	144.6	121.6

600 Litre Dual Wall Sub Base Fuel Tank

Generator set model	Fillable capacity Litres (US Gal)	Usable capacity Litres (US Gal)	Length mm (in)	Width mm (in)	Increase in height over skid base model mm (in)	Tank only dry weight kg (lb)	Running time in hours at 75% Prime Rating	
							50 Hz	60 Hz
3 Phase								
DE9.5E3	600 (158.5)	558 (147.4)	1500 (59.1)	865 (34.1)	755 (29.7)	250 (551)	279.0	253.6
DE9.5E3 (EUR1)	600 (158.5)	558 (147.4)	1500 (59.1)	865 (34.1)	755 (29.7)	250 (551)	279.0	253.6
DE13.5E3	600 (158.5)	558 (147.4)	1500 (59.1)	865 (34.1)	755 (29.7)	250 (551)	199.3	174.4
DE16E0	600 (158.5)	558 (147.4)	1500 (59.1)	865 (34.1)	755 (29.7)	250 (551)	186.0	–
DE18E3	600 (158.5)	558 (147.4)	1500 (59.1)	865 (34.1)	755 (29.7)	250 (551)	164.1	139.5
DE22E3	600 (158.5)	558 (147.4)	1500 (59.1)	865 (34.1)	755 (29.7)	250 (551)	143.1	124.0
Single Phase								
DE7.5E3S	600 (158.5)	558 (147.4)	1500 (59.1)	865 (34.1)	755 (29.7)	250 (551)	293.7	253.6
DE11E3S	600 (158.5)	558 (147.4)	1500 (59.1)	865 (34.1)	755 (29.7)	250 (551)	206.7	169.1
DE14E3S	600 (158.5)	558 (147.4)	1500 (59.1)	865 (34.1)	755 (29.7)	250 (551)	169.1	136.1
DE16E3S	600 (158.5)	558 (147.4)	1500 (59.1)	865 (34.1)	755 (29.7)	250 (551)	150.8	126.8

1000 Litre Single Wall Sub Base Fuel Tank

Generator set model	Fillable capacity Litres (US Gal)	Usable capacity Litres (US Gal)	Length mm (in)	Width mm (in)	Increase in height over skid base model mm (in)	Tank only dry weight kg (lb)	Running time in hours at 75% Prime Rating	
							50 Hz	60 Hz
3 Phase								
DE9.5E3	1000 (264.2)	976 (257.8)	2150 (84.6)	865 (34.1)	705 (27.8)	215 (474)	488.0	443.6
DE9.5E3 (EUR1)	1000 (264.2)	976 (257.8)	2150 (84.6)	865 (34.1)	705 (27.8)	215 (474)	488.0	443.6
DE13.5E3	1000 (264.2)	976 (257.8)	2150 (84.6)	865 (34.1)	705 (27.8)	215 (474)	348.6	305.0
DE16E0	1000 (264.2)	976 (257.8)	2150 (84.6)	865 (34.1)	705 (27.8)	215 (474)	325.3	–
DE18E3	1000 (264.2)	976 (257.8)	2150 (84.6)	865 (34.1)	705 (27.8)	215 (474)	287.1	244.0
DE22E3	1000 (264.2)	976 (257.8)	2150 (84.6)	865 (34.1)	705 (27.8)	215 (474)	250.3	216.9
Single Phase								
DE7.5E3S	1000 (264.2)	976 (257.8)	2150 (84.6)	865 (34.1)	705 (27.8)	215 (474)	513.7	443.6
DE11E3S	1000 (264.2)	976 (257.8)	2150 (84.6)	865 (34.1)	705 (27.8)	215 (474)	361.5	295.8
DE14E3S	1000 (264.2)	976 (257.8)	2150 (84.6)	865 (34.1)	705 (27.8)	215 (474)	295.8	238.0
DE16E3S	1000 (264.2)	976 (257.8)	2150 (84.6)	865 (34.1)	705 (27.8)	215 (474)	263.8	221.8

1000 Litre Dual Wall Sub Base Fuel Tank

Generator set model	Fillable capacity Litres (US Gal)	Usable capacity Litres (US Gal)	Length mm (in)	Width mm (in)	Increase in height over skid base model mm (in)	Tank only dry weight kg (lb)	Running time in hours at 75% Prime Rating	
							50 Hz	60 Hz
3 Phase								
DE9.5E3	1000 (264.2)	934 (246.7)	2010 (79.1)	1060 (41.7)	755 (29.7)	375 (827)	467.0	424.5
DE9.5E3 (EUR1)	1000 (264.2)	934 (246.7)	2010 (79.1)	1060 (41.7)	755 (29.7)	375 (827)	467.0	424.5
DE13.5E3	1000 (264.2)	934 (246.7)	2010 (79.1)	1060 (41.7)	755 (29.7)	375 (827)	333.6	291.9
DE16E0	1000 (264.2)	934 (246.7)	2010 (79.1)	1060 (41.7)	755 (29.7)	375 (827)	311.3	–
DE18E3	1000 (264.2)	934 (246.7)	2010 (79.1)	1060 (41.7)	755 (29.7)	375 (827)	274.7	233.5
DE22E3	1000 (264.2)	934 (246.7)	2010 (79.1)	1060 (41.7)	755 (29.7)	375 (827)	239.5	207.6
Single Phase								
DE7.5E3S	1000 (264.2)	934 (246.7)	2010 (79.1)	1060 (41.7)	755 (29.7)	375 (827)	491.6	424.5
DE11E3S	1000 (264.2)	934 (246.7)	2010 (79.1)	1060 (41.7)	755 (29.7)	375 (827)	345.9	283.0
DE14E3S	1000 (264.2)	934 (246.7)	2010 (79.1)	1060 (41.7)	755 (29.7)	375 (827)	283.0	227.8
DE16E3S	1000 (264.2)	934 (246.7)	2010 (79.1)	1060 (41.7)	755 (29.7)	375 (827)	252.4	212.3

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