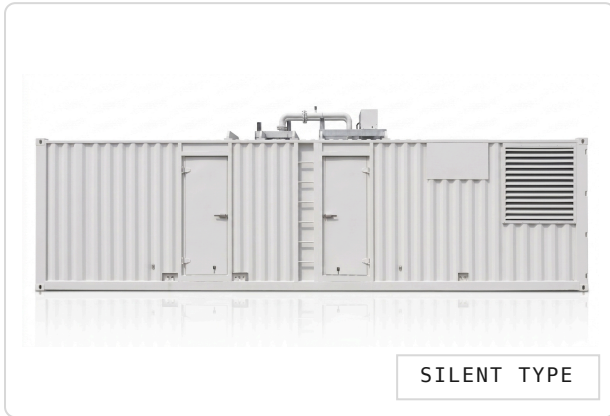


– DIESEL GENERATING SET

– POWERED BY CUMMINS KTA50-G16A
INDUSTRIAL STANDBY & PRIME
POWER SOLUTION

TC2000T 2000 KVA



SILENT TYPE



OPEN TYPE

STANDBY (ESP)
2000
kVA // 1600 kW

PRIME (PRP)
1875
kVA // 1500 kW

VOLTAGE // 3 ϕ
400^V
2887 A @ 50 Hz

NOISE @ 7M
≤ 92 ± 2
dB(A) // Silent

ELECTRICAL SPECIFICATIONS		01 // ELECTRICAL
Model	TC2000T	
Frequency	50 Hz	
Phases / Wires	3 Phase, 4 Wire	
Voltage	400 / 230 V	
Rated Current	2887 A	
Rated Speed	1500 r/min	
Power Factor (cos ϕ)	0.8	
Fuel Consumption @ 100%	386 L/h	
Engine	CUMMINS KTA50-G16A	
Alternator	STAMFORD S7L1D-F41	
Control Module	DSE 7320 MKII	

WEIGHT & DIMENSIONS		02 // PHYSICAL
– OPEN TYPE	– SILENT TYPE	
L 6100 ×	L 7400 ×	
W 2200 ×	W 2500 ×	
H 2650 mm	H 3050 mm	
14800 KG	16800 KG	
Tank: 2000 L	Tank: 2000 L	
STANDARDS GB/T 2820-2009 // ISO 8528 // CE // CNAS // IAF		

– STANDARD INCLUDED

Engine, alternator, cooling system, base frame (excl. fuel tank), shock absorber, air intake, control box with mains floating charge, plastic fan blades.

– OPTIONAL ADD-ONS

Base frame with fuel tank, water jacket heater, fuel water separator, fuel heater, level sensors, switch box, auto-fueling system, battery frame, anti-condensation heater.

– ACCESSORIES BUNDLED

Silencer, bellow, exhaust silencing system accessories (matching engine), battery, starting cord assembly, gen-set documentation, tools matched to engine.

– SECTION 01 // DIESEL ENGINE –

ENG.

MANUFACTURER: CUMMINS // 16-CYLINDER VEE // TURBOCHARGED & AFTERCOOLED

POWER PLANT

4-STROKE DIESEL

CUMMINS KTA50-G16A

1760 KW @ 1500 RPM

ENGINE
CORE

01 //
POWER PLANT

Manufacturer	CUMMINS
Model	KTA50-G16A
Engine Speed (rated)	1500 RPM
Cylinder / Arrangement	16 / V (Vee)
Displacement	50.3 L
Bore × Stroke	159 × 159 mm
Compression Ratio	14.3 : 1
Max Standby Power	1760 kW
Frequency Regulation	≤ 0.5 %
Governor Type	Electronic
Aspiration / Cooling	Turbocharged & Aftercooled

FUEL / OIL
/ AIR

02 //
CONSUMABLES

Fuel Consumption @ 100% PRP	386 L / h
Fuel Consumption @ 75% PRP	281 L / h
Fuel Consumption @ 50% PRP	205 L / h
Fuel Consumption @ 25% PRP	115 L / h
Total Oil Capacity w/ Filters	188 L
Engine Air Flow	9200 L/s
Exhaust Gas Flow	22500 L/s
Exhaust Temperature	511 °C
Max Back Pressure	7.5 kPa
Radiator & Engine Capacity	562 L
Max Water Temperature	99 °C

– KEY ENGINE ADVANTAGES

- ▶ **CUMMINS engines:** advanced design, reliable performance and durable continuous operation.
- ▶ High combustion efficiency and low fuel consumption, engineered for continuous running.
- ▶ Globally available CUMMINS service parts and authorised service network.
- ▶ Alloy-steel block and connecting rods for high durability under load.
- ▶ Modular electronic injection technology — precise control and complete combustion.
- ▶ Proven platform operating across industrial, data-centre and utility applications.

– SECTION 02 // AC ALTERNATOR –

ALT.
 MANUFACTURER: CUMMINS GENERATOR TECHNOLOGIES // BRUSHLESS AVR // IP23
 CLASS H

3-PHASE AC
BRUSHLESS SHUNT

IP23 / CLASS H

STAMFORD S7L1D-F41

CORE CONFIGURATION

01 // BUILD

Manufacturer	STAMFORD
Type	S7L1D-F41
Number of Phases	3
Power Factor (cos φ)	0.8
Pole Count	4
Bearing	1 (Single)
Coupling	Direct
Exciter Type	Brushless SHUNT / PMG

ELECTRICAL / PROTECTION

02 // PROTECTION

Insulation Class / Temp Rise	H / H
Degree of Protection	IP 23
AVR Model	MX341
Altitude Rating	≤ 1000 m
Winding Pitch	2/3
Winding Leads	6 / 12
Voltage Regulation	± 1.0 %
Overspeed Capability	2250 r/min (1 min)

– STAMFORD ALTERNATOR QUALITY PROGRAM

- ▶ Utilising wire-wound (random-wound) technology — industry benchmark for all gen-set configurations.
- ▶ IP21, IP22, IP23 and IP44 enclosure protection options available.
- ▶ Manufactured under ISO 9001 and ISO 14001 certified environments.
- ▶ Brushless excitation with AVR — maintenance-free, high-reliability voltage control.
- ▶ Ideal for marine/offshore, UPS, telecoms, construction and continuous/standby power.
- ▶ Licensed service network across Southeast Asia for parts and warranty support.

STANDARDS GB755 // BS5000 Part 3 // VDE 0530 // NEMA MG1-22 // IEC-34 // CSA C22-100 // AS1359

– SECTION 03 // CONTROL MODULE –

CTRL.
 AUTO START & AUTO MAINS FAILURE (AMF) CONTROL MODULE // IP65 //
 ETHERNET-READY

AMF + AUTO START
GEN-SET CONTROLLER

IP65 / 250-EVENT LOG

DEEPSEA DSE 7320 MKII

PHYSICAL SPECS

01 // DIMENSIONS

Overall Size	240 × 181 × 42 mm
Overall (imperial)	9.4" × 7.1" × 1.6"
Panel Cutout	220 × 160 mm
Panel Cutout (imperial)	8.7" × 6.3"
Weight	400 g
Ingress Protection	IP65 (with gasket)
Display	132 × 64 px • 4-line LCD
Inputs / Outputs	9 / 8 Configurable
Event Log	250 Events
Operating Temperature	-30 to +70 °C

MKII ENHANCEMENTS

02 // UPGRADES

Processing Power	Upgraded CPU
USB Host Port	Type-A (Firmware)
USB Device Port	Type-B (PC Config)
Front Editing	PIN Protected
Config Suite	v2 Compatible
Tier 4 CAN Support	Enhanced
Backward Mounting	Identical Cutout
Languages	Multi-lingual
DSENet® Expansion	Supported
Real-Time Clock	Battery Backed-up

– CORE FEATURES

- 4-Line back-lit LCD text display
- Five-key menu navigation
- Front panel editing with PIN protection
- Customisable status screens & power save
- Up to 3 remote display units
- Tier 4 CAN engine support
- CAN & Magnetic Pick-up sensing

– PROTECTION & MONITORING

- kW & kVAr protection
- Reverse power (kW & kVAr) protection
- Unbalanced load protection
- Independent earth fault trip
- Charge alternator failure alarm
- Fuel usage monitor & low-fuel alarms
- LED and LCD alarm indication

– LOAD & POWER CONTROL

- Automatic load transfer (AMF)
- Load shedding & dummy load outputs
- Power monitoring (kWh, kVAr, kVAh)
- Manual speed control (CAN engines)
- Engine exerciser schedule
- Idle control for starting & stopping

– CONNECTIVITY & SOFTWARE

- USB host + device connectivity
- RS232 & RS485 communications
- Configurable Gencomm pages
- Remote SCADA monitoring via PC software
- Advanced SMS messaging (start/stop via SMS)
- Ethernet via DSE860/865 modules
- Licence-free DSE Config Suite PC software