

– DIESEL GENERATING SET

# TC350T-1 350 KVA

– POWERED BY CUMMINS 6LTAA9.5-G1  
INDUSTRIAL STANDBY & PRIME  
POWER SOLUTION



SILENT TYPE



OPEN TYPE

STANDBY (ESP)

**350**

KVA // 280 kW

PRIME (PRP)

**318**

KVA // 256 kW

VOLTAGE // 3Φ

**400<sub>v</sub>**

505 A @ 50 Hz

NOISE @ 7M

**≤ 78 ± 2**

dB(A) // Silent

## ELECTRICAL SPECIFICATIONS

01 // ELECTRICAL

Model	TC350T-1
Frequency	50 Hz
Phases / Wires	3 Phase, 4 Wire
Voltage	400 / 230 V
Rated Current	505 A
Rated Speed	1500 r/min
Power Factor (cos φ)	0.8
Fuel Consumption @ 100%	70 L/h
Engine	Cummins 6LTAA9.5-G1
Alternator	Stamford S4L1S-E41
Control Module	DSE 7320 MKII

## WEIGHT & DIMENSIONS

02 // PHYSICAL

### – OPEN TYPE

L 3050 ×  
W 1100 ×  
H 1720 mm

**2742 KG**

Tank: 421 L

### – SILENT TYPE

L 4366 ×  
W 1406 ×  
H 2260 mm

**3867 KG**

Tank: 600 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.

ENG.

MANUFACTURER: CUMMINS // 6-CYLINDER IN-LINE // TURBOCHARGED & AFTER-COOLED

POWER PLANT

**4-STROKE DIESEL**

**320 KW @ 1500 RPM**

# CUMMINS 6LTAA9.5-G1

## ENGINE CORE

01 // POWER PLANT

Manufacturer	<b>CUMMINS</b>
Model	<b>6LTAA9.5-G1</b>
Engine Speed (rated)	<b>1500 RPM</b>
Cylinder / Arrangement	<b>6 / L (Inline)</b>
Displacement	<b>9.5 L</b>
Bore × Stroke	<b>116 × 148 mm</b>
Compression Ratio	<b>17.3 : 1</b>
Max Standby Power @ Rated	<b>320 kW</b>
Frequency Regulation	<b>≤ 1 %</b>
Governor Type	<b>Electrical</b>
Aspiration / Cooling	<b>Turbocharged &amp; After-Cooled</b>

## FUEL / OIL / AIR

02 // CONSUMABLES

Fuel Consumption @ 100% PRP	<b>70 L / h</b>
Fuel Consumption @ 75% PRP	<b>52 L / h</b>
Fuel Consumption @ 50% PRP	<b>35 L / h</b>
Fuel Consumption @ 25% PRP	<b>18 L / h</b>
Total Oil Capacity w/ Filters	<b>32.4 L</b>
Engine Air Flow	<b>310 L/s</b>
Exhaust Gas Flow	<b>780 L/s</b>
Exhaust Temperature	<b>600 °C</b>
Max Back Pressure	<b>10 kPa</b>
Radiator & Engine Capacity	<b>11.1 L</b>
Max Water Temperature	<b>104 °C</b>

### – 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.
- ▶ P/T pump injection technology — low cost and complete combustion.
- ▶ Proven platform operating across industrial, construction and agricultural applications.

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

3-PHASE AC  
**BRUSHLESS SHUNT**

**IP23 / CLASS H**

# STAMFORD S4L1S-E41

## CORE CONFIGURATION 01 // BUILD

Manufacturer	<b>STAMFORD</b>
Type	<b>S4L1S-E41</b>
Number of Phases	<b>3</b>
Power Factor (cos φ)	<b>0.8</b>
Pole Count	<b>4</b>
Bearing	<b>1 (Single)</b>
Coupling	<b>Direct</b>
Exciter Type	<b>Brushless SHUNT</b>

## ELECTRICAL / PROTECTION 02 // PROTECTION

Insulation Class / Temp Rise	<b>H / H</b>
Degree of Protection	<b>IP 23</b>
AVR Model	<b>AS440</b>
Altitude Rating	<b>≤ 1000 m</b>
Winding Pitch	<b>2/3</b>
Winding Leads	<b>6 / 12</b>
Voltage Regulation	<b>± 1.0 %</b>
Overspeed Capability	<b>2250 r/min (1 min)</b>

### – 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

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

AMF + AUTO START  
**GEN-SET CONTROLLER**

**IP65 / 250-EVENT LOG**

# DEESEA

## DSE 7320 MKII

### PHYSICAL SPECS

01 // DIMENSIONS

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

### MKII ENHANCEMENTS

02 // UPGRADES

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

#### – 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
- Integral PLC editor

#### – 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
- 3 configurable maintenance alarms

#### – LOAD & POWER CONTROL

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

#### – 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
- DSENet® expansion compatible