

# TJ700DW (400 VAC)

## 50 Hz Diesel Generator Sets

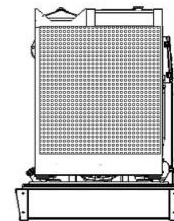
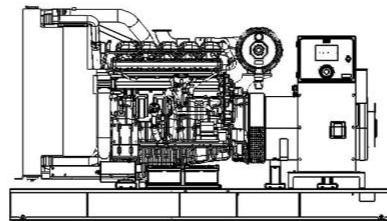
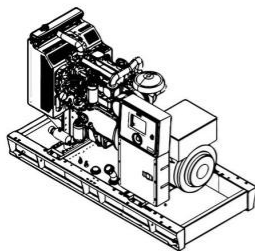


### Output Power

Standby Power (ESP)	kVA	706
	kW	564.8
Prime Power (PRP)	kVA	641
	kW	512

### Size

	W x L x H (mm)	Weight (kg)	Fuel Tank (lt)	Noise dB(A) @7m
Canopied	1685 x 5370 x 2450	4800	705	80
Open Skid	1650 x 3500 x 2000	3641	705	N/A



### Continuous Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a constant electrical load. Average load can be 100%. The generator must not be overloaded.

### Standby Power

The max power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hrs of operation per year under average of 70% load. Overloading isn't permissible.

### Prime Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

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### Engine

Manufacturer		DOOSAN
Model		DP180LB
Cylinder Configuration		V TYPE
No of Cylinders		10
Displacement	lt	18.273
Bore	mm	128
Stroke	mm	142
Compression Ratio		15:01
Aspiration		TURBOCHARGE-INTERCOOLER
Governor Type		ELECTRONIC
Cooling System		WATER
Coolant Capacity	lt	91
Lubrication Oil Capacity	lt	34
Electrical System	VDC	24
Speed / Frequency 50 Hz	rpm	1500 rpm / 50 Hz
Engine Gross Power (Standby 50 Hz)	kW	612
Fuel Consumption %110 ESP 50 Hz	lt/h	149,5
Fuel Consumption %100 PRP 50 Hz	lt/h	136,4
Fuel Consumption %75 PRP 50 Hz	lt/h	103,8
Fuel Consumption %50 PRP 50 Hz	lt/h	71,2
Exhaust Outlet Temperature 50 Hz	°C	587
Exhaust Gas Flow 50 Hz	m3/min	118
Combustion Air Flow 50 Hz	m3/min	36
Cooling Air Flow 50 Hz	m3/min	700

### Alternator

No of Phases		3
Power Factor		0,8
No of Bearings		SINGLE
No of Poles		4
No of Leads		6-12
Insulation Class		H-F
Degree of Protection		IP 21-23
Excitation System		AVR (Automatic Voltage Regulator), Brushless
Connection Type		STAR - TRIANGLE

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### Standard Equipment

#### Engine

In Teksan generator sets, leading engine brands that have state of the art technology and have compliance with ISO 8528, ISO 3046, BS 5514, DIN 6271 standards, are being used. These engines with low fuel consumption, provide accurate speed setting and order, mount to the fuel pump, also have mechanic or electronic type governors.

#### Alternator

In products Teksan produced, leading alternator brands of the world that have state of the art technology, high quality, productivity and durability, are being used. All alternators, which pass necessary test process and found appropriate according to EC 60034-1; CEI EN 60034-1; BS 4999-5000; VDE 0530, NF 51-100,111; OVE M-10, NEMA MG 1.22. standards, have bearing system that does not need maintenance, with electronic type voltage regulator providing voltage setting.

#### Control Panel

Standard control panel, that is used in Teksan generator sets, ensures comfortable and safe usage. All measured and statistical parameters, operating modes, notice and alarms and condition of generator, are monitored easily from the control panel. On the front of the panel's metal body has electronic control module and the emergency stop button and the panel's metal body is made of steel sheet and is painted with electrostatic powder paint.

Teksan offers panel design and solutions that comply with special requirements of customers as well as quality standard panels.

#### Chassis and Fuel Tank

Chassis is manufactured from steel that has features and durability for carrying burden of generator set. Thanks to its rigid structural design and anti-vibration mounts, it reduces vibration level to minimum. All chassis contain lifting lugs. Apart from Chassis that are produce by Teksan, special solutions that design in accordance with customer desires, make transportation and positioning easier.

In less than 1600 kVA power generator sets, fuel tank is produced integrated to the chassis. In more than 1600 kVA power generator sets, rectangular type fuel tank is provided with generator set separately. In all types of fuel tank have its level and indicator.

#### Cooling System

System, that consists of quality industrial - type radiator, expansion tank and cooler fan, keeps the temperature of generator set's equipment's constant at a proper level.



### Canopy Features

**TEKSAN** Standard Canopies' default features are as follows;

- Compatible with 2000/14/EC directives, certified noise emission level,
- 2 or 4 points transport possibility according to cabin size,
- Hidden exhaust inside the canopy,
- Emergency stop button located on the canopy,
- Improved air suction channel to ensure homogenous cooling in the canopy,
- Radiator air outlet and exhaust with designed towards above,
- Lid on cab that provides to be filled up water and antifreeze easily to the radiator,
- Amplified paint system against corrosion and rust,
- Improved performance in terms of sound insulation,
- Demounted parts that make transportation and maintenance easier,

As well as the standard range of canopies, TEKSAN can also design tailor made canopies with specific sound level or size upon customer requests.

### Optional Equipment

Some Optional Equipment's that Teksan provides with Generator Sets;

- Medium voltage alternator,
- Remote radiator applications,
- Automatic fuel filling system,
- Fuel tank, oil pan, dashboard, alternator, coil heaters,
- Alternator with double AVR and PMG,
- Synchronization systems,
- The generator output breaker,
- Grid-generator transfer switches,
- Accordance with the specific volume of demand-insulated cabins,
- Seismic solutions,
- Trailer,
- Remote monitoring.

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### Control Panel Features-DSE-7320

- 4-Line back-lit LCD text display
  - Five key menu navigation
  - Front panel editing with PIN protection
  - Customisable status screens
  - Power save mode
  - Support for up to three remote display units
  - 9 configurable inputs
  - 8 configurable outputs
  - Flexible sender 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 & kV Ar protection
  - Reverse power (kW & kV Ar) 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 (DSE7320)
  - Unbalanced load protection
  - Independent Earth Fault trip
  - True dual mutual standby with load balancing timer (DSE7310 only)
  - 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 RS232 and RS485 communications
  - Configurable Gencomm pages
  - Advanced SMS messaging (additional external modem required)
  - Start & stop capability via SMS messaging
  - Additional display screens to help with modem diagnostics
  - Idle control for starting & stopping.
  - DSENet® expansion compatible
  - Heated display option available
- Technical information and values are according to ISO8528, ISO3046, NEMA MG-1.22, IEC 600341, BS 4999-5000, VDE 0530 standards.
- Producing with ISO9001, ISO14001, OHSAS18001, TSE, CE standards.
- All information given in this leaflet is intended for general purposes only.
- Due to a policy continuous improvement Teksan reserves the right to amend details and specifications without notice and all information given is subject to the Teksan's current condition of sales.



### Functions

- AMF unit
- Remote start controller
- Manual start controller
- Engine controller
- Remote display & control unit
- CTs at genset or load side

### Communications

- Web monitoring
- GSM-SMS (requires externally modem)
- e-mail
- USB Device
- RS-232
- J1939-CANBUS

### Topologies

- 2 phase 3 wires, L1-L2
- 2 phase 3 wires, L1-L3
- 3 phase 3 wires
- 3 phase 4 wires, star
- 3 phase 4 wires, delta
- 1 phase 2 wires

TBA: To Be Asked TBD: To Be Determined NA: Not Available N/A: Not Applicable TTDTJ700DW20210913EN

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