Tescom®

DIESEL
GENERATOR SET
CATALOGUE

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ABOUT TESCOM

Tescom formerly known as Tümel Elektronik located in Izmir-Turkey is an independently owned corporation, offering a wide range of power protection products and services to a wide spectrum of industries and sectors.

During the establishment years the company was manufacturing electronic control devices and inverters, then in 1986 when the IT sector started developing rapidly, Tescom sensed the great need for clean, uninterruptible power and started designing and manufacturing Uninterruptible Power Supplies.

As well as an extensive standard UPS range Tescom also offers a variety of other products such as static transfer switch (STS), frequency and voltage converters, inverters and rectifiers under it's registered trademark "Tescom".

Today all Tescom branded power protection products are manufactured by 48 greatly experienced engineers and staff of 345 people.

One of the greatest advantages of Tescom has always been, flexibility. Which means we do not only offer standard products. Thank's to our high experienced R&D team we also design and manufacture products according to customers requirements.

Tescom has always made widespread use of the latestdevelopments and technologies in manufacturing, which complies with all the necessary international standards and norms. All these past years of experience, has lead to over 300,000 manufactured power protection products which have been delivered to customers in more than 40 countries in 4 continents.

TESCOM DIESEL GENERATORS

STAND BY RATING (ESP)

It is the way that generators operate under variable load at certain time intervals. It can work as a backup power. It is not suitable to work under extreme load.

PRIME RATING (PRP)

Applicable for supplying power to varying electrical load for unlimited hours. 10% overload capability is available for a period of 1 hour within 12-hour perod of operation.

CONTINUOUS OPERATION

It is the continious working under constant load. Unlimited hours use of all (100%) of the defined power. It cannot be overloaded above the defined power. For use where there is no mains power.

DESCRIPTION

TESCOM TDJ Series Diesel generator set is a fully integrated power generation system, providing optimum performance, reliability, and versatility for stationary standby, prime power and continuous duty applications.

ENGINE FEATURES

- Heavy duty generator engine
- 4-stroke, water cooling, natural suction system
- Mechanical governor system
- 12/24 volt starter motor and charge alternator
- Replaceable; with air, fuel and oil filters
- With flexible fuel hose
- Oil drain valve and extension hose/oil drain pump
- Industrial capacity muffler and exhaust spiral or compensator
- Maintenance-free type starter battery
- Engine block water heater (avaliable for automatic models)
- Diesel generator maintenance and operation manual and electrical diagrams

QUALITY

Our generators are produced in accordance with integrated management systems such as ISO900, ISO14001, ISO 27001 and CE and TSE standards within the framework of Quality Assurance requirements, and we have full qualification certificates for our after-sales services.

CANOPY STANDART SPECIFICATIONS

- Compact design connection with non-welded nuts and bolts.
- Integrated canopy,generator set,exhaust system fuel tank.
- Body made from steel components treated with polyester powder coating
- Easy access to all service points
- Exhaust system inside canopy
- Large doors on each side
- Control panel viewing window in a lockable access door
- Emergency stop push button mounted on cabin exterior
- Fuel fill and battery can only be reached via lockable access doors.
- Customer options available to meet your applications needs.
- TESCOM makes its generating sets noise level tests in accordance with directive 2000/14/EC validation of the noise level test has been aproved by the notified body Szutest (CE conformity assessment body).

ALTERNATOR FEATURES

- Brushless, single bearing, flexible disc 4-pole synchronous alternator
- H Insulation class
- IP21-23 protection class
- Shunt excitation
- Electronic voltage regulator
- Stator winding 2/3 step against harmonic distortions
- Alternator windings are protected with isolation varnish against oil and acid

CONTROL PANEL FEATURES

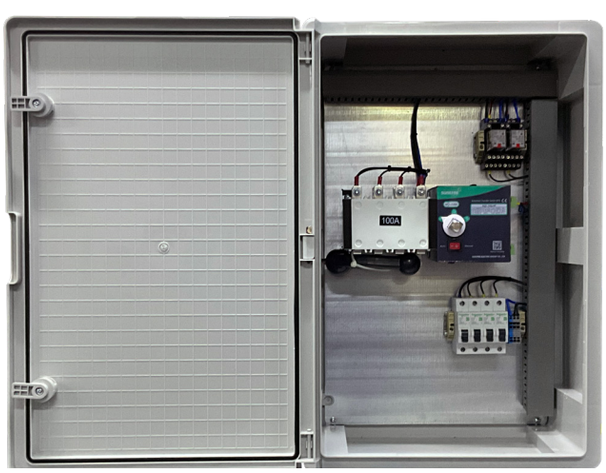
- The cable group we use in our generators is fireproof cable class. Cable sheaths form the defense line of cables against various chemicals and flame.

- The use of Halogen-free materials in the outer sheath of the cables prevents the spread of toxic gases during a fire. At the same time, fireproof cable sheaths have low smoke density and flame retardant properties. This feature of fireproof cable sheaths prevents the spread of fire and minimizes possible damages.

- Schneider Electric breaker group is used in generator control panels. As a standard, all our products have a 4-pole MCCB (Molded Case Circuit Breaker)

ATS (AUTOMATIC TRASFER SWITCH) GENERAL FEATURES

- The SQ5 Dual Power Automatic Transfer Switch Series is a kind of automatic transfer switch that combines the switch and the logic controller, enabling the mechanical and electrical to become an inseparable whole.
- Superior electromagnetic compatibility, high resistance to interference.
- It has zero-time transfer technology with high reliability.
- It cuts the dual circuit power simultaneously.
- In addition to PLC remote control, it has a multi-circuit input / output interface that can automate the system.



ATS MODEL	GENERATOR POWER RANGE
100 A TRANSFER PANEL WITH TRANSFER SWITCH	0-70 kVA
160 A TRANSFER PANEL WITH TRANSFER SWITCH	82-124 kVA
250 A TRANSFER PANEL WITH TRANSFER SWITCH	125-165 kVA
400 A TRANSFER PANEL WITH TRANSFER SWITCH	220-275 kVA
630 A TRANSFER PANEL WITH TRANSFER SWITCH	300-440 kVA
800 A TRANSFER PANEL WITH TRANSFER SWITCH	500-550 kVA
1000 A TRANSFER PANEL WITH TRANSFER SWITCH	660-715 kVA
1250 A TRANSFER PANEL WITH TRANSFER SWITCH	750-825 kVA
1600 A TRANSFER PANEL WITH TRANSFER SWITCH	900-1100 kVA
2000 A TRANSFER PANEL WITH TRANSFER SWITCH	1250kVA
2500 A TRANSFER PANEL WITH TRANSFER SWITCH	1400-1600 kVA

CONTROL SYSTEM

The new TESCOM TCM01 genset controllers are a cost effective modular genset controller ready for internet monitoring through plug-in modules. Its main advantages are multifunctionality, support for multiple topologies, harmonic analysis and detailed power measurements.

Different brand controller can be offered upon request.
(DEIF AGC 150, DEIF SGC 120/12, DEIF SGC 420/421, Datacom D500, DEEPSEA 6120, DEEPSEA 7320, ComAp AMF25)

DESCRIPTION

Software features are complete with easy firmware upgrade through USB port. The Windows based PC software allows monitoring and programming through USB, RS-485, RS-232, Ethernet and GPRS. The Rainbow Scada web service allows monitoring and control of an unlimited number of gensets from a single central location.

MAJOR FEATURES

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16Amp MCB & GCB outputs
- 8 configurable digital inputs
- 6 configurable digital outputs
- 3 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- Manual "speed fine adjust" on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarm
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-485, Ethernet and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring
- Mobile genset support
- Automatic GSM geo-location
- Easy USB firmware upgrade
- -40°C operation with optional display heater
- IP65 rating with optional gasket

COMMUNICATION

- USB Device
- J1939-CANBUS
- Geo-locating through GSM
- Internet Central Monitoring
- SMS message sending
- E-mail sending
- Free PC software: Rainbow Plus
- Modbus RTU (2400-57600baud)
- Modbus TCP/IP

PLUG-IN MODULES

- GSM Modem (2G-3G-4G)
- Ethernet 100Mbps
- Wi-Fi (802.11 b/g/n)
- RS-485 (2400-57600baud)
- RS-232 (2400-57600baud)

MEASUREMENTS

- Mains & genset PN/PP voltages
- Mains & genset frequency
- Mains & genset phase currents
- Mains & genset neutral currents
- Mains & genset, phase & total, kW, kVA, kVAr, pf
- Engine speed
- Battery voltage

FUNCTIONALITIES

- AMF unit
- ATS unit
- Remote start controller
- Manual start controller
- Engine controller

TOPOLOGIES

- 3 ph 4 w, star & delta
- 3 ph 3 w, 2 CTs
- 2 ph 3 w
- 1 phase 2 wires

TESCOM TCM01


DEIF AGC 150

DEIF SGC 120


DEIF SGC 420

DATAKOM D500

DEEPSEA 6120

DEEPSEA 7320

ComAp AMF25

TECHNICAL SPECIFICATIONS

	TDJ11YT		TDJ12YT		TDJ15YT		TDJ20YT		TDJ25YT		TDJ28YT		TDJ30YT		TDJ34YT		TDJ40YT	
Standby (kVA/kW)	11	8,8	12	9,6	15	12	20	16	28	22	28	22	30	24	34	27	40	32
Prime (kVA/kW)	10	8	11	9	14	11	18	15	25	20	25	20	27	22	31	25	36	29
Open type size (LxWxH mm)	2263 x 900 x 1300												2263 x 1000 x 1300					
With cabinet (LxWxH mm)	2263 x 900 x 1500												2263 x 1000 x 1500					
Open type weight (kg)	TBA						619		619		659		686		826		706	
Open type weight (kg) (Except for antifreeze and oil)							600		600		639		662		797		677	
Weight with cabinet (kg)							769		769		809		826		686		846	
Weight with cabinet (kg) (Except for antifreeze and oil)							750		749		789		802		657		817	
Tank capacity (L)	122																	
MOTOR																		
Frequency	50Hz																	
Manufacturer and model	YD380D		YD385D		YD480D		YND485D		YSD490D		Y490D		Y495D		Y4100D		Y4102D	
Output rating	11kW		12,1kW		15,4kW		18,7kW		23,1kW		26,4kW		28,6kW		33kW		36,3kW	
Fuel	Diesel																	
Injection	Direct																	
Aspiration	Naturally aspirated																	
Cylinders	4																	
Bore x Stroke	80 x 90mm		85 x 90mm		80 x 90mm		85 x 95mm		90 x 100mm		90 x 105mm		95 x 105mm		100 x 118mm		102 x 118mm	
Displacement	1,375lt		1,5lt		1,89lt		2,1lt		2,54lt		2,67lt		2,97lt		3,707 lt		3,87lt	
Cooling	Water																	
Engine oil specification	SAE 15W40																	
Compression ratio	18:01																	
Engine oil capacity (sump only)	4,5lt				5lt		5,5lt		8lt						13lt			
Coolant capacity (incl.radiator)	10,4lt				11lt		12lt						16lt					
Governor	Mechanical																	
Air filter	Dry element																	
Electrical system	12V																	
FUEL CONSUMPTION																		
100% Load	3,1lt/h		3,55lt/h		4,22lt/h		4,71lt/h		5,45lt/h		6,43t/h		6,87lt/h		7,05lt/h		8,94lt/h	
75% Load	2,86lt/h		3,12lt/h		3,43lt/h		3,73lt/h		4,05lt/h		5,77lt/h		6,15lt/h		5,74lt/h		6,8lt/h	
50% Load	2,23lt/h		2,54lt/h		2,74lt/h		2,78lt/h		2,98lt/h		4,81lt/h		5,27lt/h		4,34lt/h		5,04lt/h	
ALTERNATOR																		
Brand	Tescom																	
Poles	4 Poles																	
Frequency	50/60HZ																	
Winding connections	Star																	
Insulation	Class H																	
Enclosure	IP23																	
Power factor	0,8																	
Altitude	1000m																	
Exciter system	Self exication																	
Voltage regulator	AVR																	
Steady state voltage regulation	± 1%																	
Direction of rotation	Clockwise																	
Cooling	Direct drive centrifugal blower fan																	

TECHNICAL SPECIFICATIONS

	TDJ44YT		TDJ50YT		TDJ55YT		TDJ66YT		TDJ75YT		TDJ94YT		TDJ110YT		TDJ124YT		TDJ138YT	
Standby (kVA/kW)	44	35	50	40	60	48	66	53	75	60	94	75	110	88	124	99	138	110
Prime (kVA/kW)	40	32	45	36	55	44	60	48	68	55	85	68	121	97	113	90	125	100
Open type size (LxWxH mm)	2263 x 1000 x 1300						2463 x 1000 x 1450				2863 x 1100 x 1750							
With cabinet (LxWxH mm)	2263 x 1000 x 1500						2463 x 1000 x 1750				2863 x 1100 x 1950							
Open type weight (kg)	711		718		1113		1113		1131		1131		1131		1456		1494	
Open type weight (kg) (Except for antifreeze and oil)	682		689		1078		1084		1102		1098		1097		1416		1454	
Weight with cabinet (kg)	871		878		1278		1273		1416		1416		1416		1806		1844	
Weight with cabinet (kg) (Except for antifreeze and oil)	842		849		1238		1244		1387		1383		1382		1776		1804	
Tank capacity (L)	122						150											
MOTOR																		
Frequency	50Hz																	
Manufacturer and model	Y4105D		Y4110D		Y4102ZLD		Y4105ZLD		YD4EZLD		Y4110ZLD		YD4GZLD		LR4M3L-D		LR4M3L-DA	
Output rating	41,8kW		47,3kW		50,4kW		60kW		66,1kW		84kW		93kW		105kW		120kW	
Fuel	Diesel																	
Injection	Direct																	
Aspiration	Naturally aspirated						Turbocharged								Aftercooler / Turbocharged			
Cylinders	4																	
Bore x Stroke	102 x 118mm		110 x 118mm		102 x 118mm		105 x 118mm				110 x 118mm				110 x 125mm			
Displacement	3,87lt		4,484lt		3,87lt		4,087 lt				4,3lt				4,75lt			
Cooling	Water																	
Engine oil specification	SAE 15W40																	
Compression ratio	18:01														17:01			
Engine oil capacity (sump only)	13lt										17lt				14lt			
Coolant capacity (incl.radiator)	14,9lt						15,6lt				16,7lt				26lt			
Governor	Mechanical						Electronical											
Air filter	Dry element																	
Electrical system	12V														24V			
FUEL CONSUMPTION																		
100% Load	8,8lt/h		12,03lt/h		13,16lt/h		14,72lt/h		16,87lt/h		20,94lt/h		22,1lt/h		18,6lt/h		18,6lt/h	
75% Load	6,75lt/h		9,15lt/h		10,22lt/h		11,69lt/h		13,39lt/h		16,27lt/h		18,9lt/h		13,9lt/h		13,9lt/h	
50% Load	5,58lt/h		6,91lt/h		7,57lt/h		8,66lt/h		9,92lt/h		12,78lt/h		14,2lt/h		10,2lt/h		10,2lt/h	
ALTERNATOR																		
Brand	Tescom																	
Poles	4 Poles																	
Frequency	50/60HZ																	
Winding connections	Yıldız																	
Insulation	Class H																	
Enclosure	IP23																	
Power factor	0,8																	
Altitude	1000m																	
Exciter system	Self exication																	
Voltage regulator	AVR																	
Steady state voltage regulation	± 1%																	
Direction of rotation	Clockwise																	
Cooling	Direct drive centrifugal blower fan																	

TECHNICAL SPECIFICATIONS

	TDJ154YT		TDJ176YT		TDJ220YT		TDJ250YT		TDJ275YT		TDJ310YT		TDJ350YT		TDJ385YT		TDJ440YT	
Standby (kVA/kW)	154	123	176	141	220	176	250	200	275	220	310	248	350	280	385	308	440	352
Prime (kVA/kW)	140	112	160	128	200	160	227	182	250	200	282	225	318	255	350	280	400	320
Open type size (LxWxH mm)	3063 x 1100 x 1750						3563 x 1200 x 1850											
With cabinet (LxWxH mm)	3063 x 1100 x 1950						3563 x 1200 x 2050											
Open type weight (kg)	1494		1494		2003		2154		2154		2317		2994		3069		3169	
Open type weight (kg) (Except for antifreeze and oil)	1452		1452		1961		2087		2088		2250		2911		2986		3086	
Weight with cabinet (kg)	1844		1844		2453		2554		2554		2767		3444		3569		3639	
Weight with cabinet (kg) (Except for antifreeze and oil)	1802		1802		2411		2487		2488		2700		3361		3486		3556	
Tank capacity (L)	327		327		327		360		360		360		360		360		360	
MOTOR																		
Frequency	50Hz																	
Manufacturer and model	LR6A3L-D		LR6M3L-D		LR6M3L-DA		YM6S4L-D		YM6S4L-DA		YM6S4LF-D		YM6S9L-D		YM6S9L-DA		YM6S9LF-DA	
Output rating	132kW		155kW		176kW		258kW		208kW		290kW		320kW		350kW		400kW	
Fuel	Diesel																	
Injection	Direct																	
Aspiration	Aftercooler / Turbocharged														Air to air intercooled			
Cylinders	6																	
Bore x Stroke	105 x 125mm		110 x 125mm				126 x 130mm											
Displacement	6,49 lt		7,13lt				9,726lt						11,54lt					
Cooling	Water																	
Engine oil specification	SAE 15W40																	
Compression ratio	17:01						16.5:1		17,5:1		16.5:1							
Engine oil capacity (sump only)	16lt						24lt		23lt		24lt		28lt					
Coolant capacity (incl.radiator)	26lt						43lt						55lt					
Governor	Electronical																	
Air filter	Dry element																	
Electrical system	24V																	
FUEL CONSUMPTION																		
100% Load	25,5lt/h		33,2lt/h		35,1lt/h		36,64lt/h		37,18lt/h		45,44lt/h		51,68lt/h		61,46lt/h		64,97lt/h	
75% Load	18,3lt/h		25,7lt/h		25,9lt/h		27,79lt/h		28,02lt/h		34,10lt/h		38,78lt/h		47,69lt/h		50,41lt/h	
50% Load	14lt/h		17,4lt/h		17,9lt/h		20,45lt/h		20,45lt/h		23,70lt/h		26,96lt/h		33,27lt/h		35,17lt/h	
ALTERNATOR																		
Brand	Tescom																	
Poles	4 Poles																	
Frequency	50/60HZ																	
Winding connections	Star																	
Insulation	Class H																	
Enclosure	IP23																	
Power factor	0,8																	
Altitude	1000m																	
Exciter system	Self exication																	
Voltage regulator	AVR																	
Steady state voltage regulation	± 1%																	
Direction of rotation	Clockwise																	
Cooling	Direct drive centrifugal blower fan																	

TECHNICAL SPECIFICATIONS

	TDJ34K		TDJ44K		TDJ50K		TDJ70K		TDJ82K	
Standby (kVA/kW)	34	27,2	44	35,2	50	40	70	56	82	65,6
Prime (kVA/kW)	30	24	40	32	45	36	63	50,4	75	60
Open type size (LxWxH mm)	2263 x 1000 x 1300				2463 x 1000 x 1450				2863 x 1100 x 1750	
With cabinet (LxWxH mm)	2263 x 1000 x 1500				2463 x 1000 x 1750				2863 x 1100 x 1950	
Open type weight (kg)	686		706		711		1113			
Open type weight (kg) (Except for antifreeze and oil)	660		680		685		1087			
Weight with cabinet (kg)	826		846		871		1273			
Weight with cabinet (kg) (Except for antifreeze and oil)	800		820		845		1247			
Tank capacity (L)	122				150					
MOTOR										
Manufacturer and model	N4100DS		N4100ZDS				N4105ZDS		N4105 ZLDS	
Frequency	50Hz									
Output rating	33kW		46kW				56kW		72kW	
Fuel	Diesel									
Injection	Swirl						Direct			
Aspiration	Naturally aspirated		Turbocharged						Naturally aspirated	
Cylinders	4									
Bore and Stroke	100 x 115mm		105 x 120mm						105 x 130mm	
Displacement	3,61lt		4,15lt							
Cooling	Water									
Engine oil specification	SAE 15W40									
Compression ratio	17:1									
Engine oil capacity (sump only)	13lt									
Coolant capacity (incl.radiator)	13lt									
Governor	Mechanical									
Air filter	Dry element									
FUEL CONSUMPTION										
100% Load	5,7lt/h		10,4lt/h				14,9lt/h		17,3lt/h	
75% Load	4,3lt/h		7,8lt/h				11,2lt/h		12,9lt/h	
50% Load	2,8lt/h		5,2lt/h				7,5lt/h		8,6lt/h	
EXHAUST SYSTEM										
Maximum temperature	< 600°C									
Exhaust gas flow	4,75m³/min						5,96m³/min		8,66m³/min	
Maximum exhaust back pressure	60mBar									
Exhaust flange size (internal dia.)	60mm									
AIR SYSTEM										
Intake air flow	2,3m³/min		4,5m³/min				5,65m³/min		8,2m³/min	
Air intake temperature rise	< 5°C									
STARTING SYSTEM										
Starter motor	3,7kW		4,8kW				6kW		4,3kW	
Battery capacity	60Ah		72Ah							
Auxiliary voltage	12V								24V	
ALTERNATOR										
Brand	Tescom									
Poles	4 Poles									
Frequency	50/60HZ									
Winding connections	Star									
Insulation	Class H									
Enclosure	IP23									
Power factor	0,8									
Altitude	1000m									
Exciter system	Self exication									
Voltage regulator	AVR									
Steady state voltage regulation	± 1%									
Direction of rotation	Clockwise									
Cooling	Direct drive centrifugal blower fan									

TECHNICAL SPECIFICATIONS

	TDJ94K		TDJ110K		TDJ124K		TDJ165K		TDJ220K	
Standby (kVA/kW)	94	75,2	110	88	124	99,2	165	132	220	176
Prime (kVA/kW)	85	68	100	80	110	88	150	120	200	160
Open type size (LxWxH mm)	2863 x 1100 x 1750				3063 x 1100 x 1750				3563 x 1200 x 1850	
With cabinet (LxWxH mm)	2863 x 1100 x 1950				3063 x 1100 x 1950				3563 x 1200 x 2050	
Open type weight (kg)	1131				1456		1494		2003	
Open type weight (kg) (Except for antifreeze and oil)	1099				1424		1454		1963	
Weight with cabinet (kg)	1416				1806		1844		2453	
Weight with cabinet (kg) (Except for antifreeze and oil)	1384				1774		1804		2413	
Tank capacity (L)	150				327					
MOTOR										
Manufacturer and model	4RT55-88D		4RT55-110DE				R6105BZLDS		6RT80-176D	
Frequency	50Hz									
Output rating	88kW		110kW				132kW		176kW	
Fuel	Diesel									
Injection	Direct									
Aspiration	Turbocharged		Naturally aspirated				Turbocharged / Naturally aspirated			
Cylinders	4						6			
Bore and Stroke	110 x 140mm						105 x 130mm		110 x 140mm	
Displacement	5,32lt						6,75lt		7,98lt	
Cooling	Water									
Engine oil specification	SAE 15W40									
Compression ratio	17:1									
Engine oil capacity (sump only)	16lt						17lt			
Coolant capacity (incl.radiator)	16lt						23lt			
Governor	Mechanical		Electronical				Mechanical			
Air filter	Dry element									
FUEL CONSUMPTION										
100% Load	17,3lt/h		25,5lt/h		17,3lt/h		33,2lt/h		41,4lt/h	
75% Load	12,9lt/h		19lt/h		12,9lt/h		24,9lt/h		31,0lt/h	
50% Load	8,6lt/h		12,7lt/h		8,6lt/h		16,6lt/h		20,7lt/h	
EXHAUST SYSTEM										
Maximum temperature	< 600°C									
Exhaust gas flow	8,66m³/min						13,26m³/min		15,56m³/min	
Maximum exhaust back pressure	60mBar									
Exhaust flange size (internal dia.)	60mm						76mm			
AIR SYSTEM										
Intake air flow	8,2m³/min						12,56m³/min		15,71m³/min	
Air intake temperature rise	< 5°C									
STARTING SYSTEM										
Starter motor	6kW									
Battery capacity	72Ah						2 x 82Ah			
Auxiliary voltage	12V						24V			
ALTERNATOR										
Brand	Tescom									
Poles	4 Poles									
Frequency	50/60HZ									
Winding connections	Star									
Insulation	Class H									
Enclosure	IP23									
Power factor	0,8									
Altitude	1000m									
Exciter system	Self exication									
Voltage regulator	AVR									
Steady state voltage regulation	± 1%									
Direction of rotation	Clockwise									
Cooling	Direct drive centrifugal blower fan									

TECHNICAL SPECIFICATIONS

QIANNENG

	TDJ220QN	TDJ275QN	TDJ300QN	TDJ330QN	TDJ400QN	TDJ440QN
Standby (kVA/kW)	220	275		330	400	440
Prime (kVA/kW)	200	250		300	360	400
Open type size (LxWxH mm)	3563 x 1200 x 1850				3762 x 1400 x 2080	
With cabinet (LxWxH mm)	3563 x 1200 x 2050				3762 x 1400 x 2380	
Open type weight (kg)	2003	2154	2317	2994	3069	
Open type weight (kg) (Except for antifreeze and oil)	1956,4	2095	2250	2921	2947,8	
Weight with cabinet (kg)	2453	2554	2767	3444	3569	
Weight with cabinet (kg) (Except for antifreeze and oil)	2406,4	2495	2700	3371	3447,8	
Tank capacity (L)	360				430	
MOTOR						
Manufacturer and model	QN8H217E	QN9H272E		QN9H340E	QN13H435E	QN13H516E
Type	Direct injection, Four-stroke, Water-cooling, V6 type					
Aspiration	Turbocharged / Naturally aspirated					
Bore and Stroke	114 x 135mm			135 x 150	135 x 160	135 x 165
Compression ratio	18:1			17:1		
Total displacement	8.27			13		
BSFC @ rated condition (g/kW.h)	198			200		
BSFC @ oil rated condition (g/kW.h)	< 0.50			0.7		
Stable state rate (%)	≤ 5%					
Type of governor	Electronical					
Idle speed (rpm)	680					
Rated speed (rpm)	1500/1800					
Noise (dB)	≤ 115					
Smoke (FSN)	≤ 1			≤ 2		
Net weight (kg)	660			1200		
ALTERNATOR						
Brand	Tescom					
Poles	4 Poles					
Frequency	50/60HZ					
Winding connections	Star					
Insulation	Class H					
Enclosure	IP23					
Power factor	0,8					
Altitude	1000m					
Exciter system	Self exication					
Voltage regulator	AVR					
Steady state voltage regulation	± 1%					
Direction of rotation	Clockwise					
Cooling	Direct drive centrifugal blower fan					

TECHNICAL SPECIFICATIONS

QIANNENG

	TDJ550QN	TDJ620QN	TDJ700QN	TDJ825QN	TDJ1000QN
Standby (kVA/kW)	550	620	700	825	1000
Prime (kVA/kW)	500	560	630	725	900
Open type size (LxWxH mm)	4280 x 1800 x 2316		4700 x 2000 x 2480	5500 x 2300 x 2830	
With cabinet (LxWxH mm)	4280 x 1800 x 2716		4700 x 2000 x 2780	5500 x 2300 x 3330	
Open type weight (kg)	4792	5208		5528	6928
Open type weight (kg) (Except for antifreeze and oil)	4612	4996		5356	6743,5
Weight with cabinet (kg)	5442	5958		6278	8128
Weight with cabinet (kg) (Except for antifreeze and oil)	5262	5746		6106	7943,5
Tank capacity (L)	900		1250		1500
MOTOR					
Manufacturer and model	QN26H571E	QN26H612E	QN26H680E	QN28H843E	QN28H1100E
Type	Direct injection, Four-stroke, Water-cooling, V6 type			Direct injection, Four-stroke, Water-cooling, V12 type	
Aspiration	Turbocharged / Naturally aspirated				
Bore and Stroke	135 x 150	135 x 155		138 x 158	138 x 165
Compression ratio	17:1		16:1		
Total displacement	26			28	
BSFC @ rated condition (g/kW.h)	≤ 210	≤ 205		≤ 202	≤ 198
BSFC @ oil rated condition (g/kW.h)	0.7				
Stable state rate (%)	≤ 1%				
Type of governor	Electronical				
Idle speed (rpm)	680				
Rated speed (rpm)	1500/1800				
Noise (dB)	≤ 117				
Smoke (FSN)	≤ 2.5				
Net weight (kg)	1950				
ALTERNATOR					
Brand	Tescom				
Poles	4 Poles				
Frequency	50/60HZ				
Winding connections	Star				
Insulation	Class H				
Enclosure	IP23				
Power factor	0,8				
Altitude	1000m				
Exciter system	Self exication				
Voltage regulator	AVR				
Steady state voltage regulation	± 1%				
Direction of rotation	Clockwise				
Cooling	Direct drive centrifugal blower fan				

TECHNICAL SPECIFICATIONS

DOOSAN

	TDJ220DT / TDJ220DSS (*)		TDJ255DT / TDJ255DSS (*)		TDJ275DT / TDJ275DSS (*)		TDJ330DT / TDJ330DSS (*)		TDJ410DT / TDJ410DSS (*)		TDJ440DT / TDJ440DSS (*)		TDJ485DT / TDJ485DSS (*)	
Standby (kVA/kW)	220	176	255	204	275	220	330	264	410	328	440	352	485	388
Prime (kVA/kW)	200	160	232	185	250	200	300	240	373	298	400	320	441	353
Open type size (LxWxH mm)	2810 x 1150 x 1615		2835 x 1150 x 1915		3005 x 1300 x 1660		2980 x 1300 x 1660		3300 x 1600 x 1835		3300 x 1600 x 2085			
With cabinet (LxWxH mm)	3300 x 1150 x 2260				3645 x 1300 x 2300				4150 x 1600 x 2555					
Open type weight (kg)	1990		2136		2409		2498		3160		3282		3528	
Open type weight (kg) (Except for antifreeze and oil)	1930,5		2076,5		2335		2424		3065		3181		3427	
Weight with cabinet (kg)	2420		2566		2899		2988		3835		3957		4203	
Weight with cabinet (kg) (Except for antifreeze and oil)	2360,5		2506,5		2825		2914		3740		3856		4102	
Tank capacity (L)	300				400				790					
MOTOR														
Frequency	50Hz													
Manufacturer and model	DOOSAN P086TI		DOOSAN DP086LA		DOOSAN P126TI		DOOSAN P126TIII		DOOSAN DP126LB		DOOSAN P158LE		DOOSAN P158LE	
Engine power	194/263 (kWm/hp)		219/298 (kWm/hp)		265/360 (kWm/hp)		287/390 (kWm/hp)		346/470 (kWm/hp)		398/541 (kWm/hp)		398/541 (kWm/hp)	
Revolution per min.	1500 r.p.m													
Total displacement	8,071lt				11,05lt				11,051lt		14,618lt		14,618lt	
Cylinders orientation	6 Vertical In-line										8 Cylinders - V type			
Bore x Stroke	111 x 139mm				123 x 155mm						128 x 142mm			
Compression ratio	16,4:01		16,7:01		17,1:01				17,2:1		15:01			
Governor type	Electronical													
Aspiration system	Turbo CAC													
Injection	Direct													
Cooling	Water													
Electrical system	24VDC													
Lub-oil capacity	15,5lt				23lt				44lt		21lt			
Engine coolant capacity	44lt				51lt						80lt			
Cooling air flow	190 m3/min.				370 m3/min.		450 m3/min.		312 m3/min.		522 m3/min.			
Fuel	Diesel													
FUEL CONSUMPTION														
100% Load	43,1lt/h		48,7lt/h		58,1lt/h		63,1lt/h		76lt/h		80,3lt/h		89,3lt/h	
75% Load	31,7lt/h		36,8lt/h		43,6lt/h		47lt/h		57,1lt/h		58,1lt/h		65,1lt/h	
50% Load	21,1lt/h		24,6lt/h		30lt/h		31,3lt/h		38,4lt/h		40,9lt/h		43,9lt/h	
EXHAUST SYSTEM														
Maximum exhaust temperature	509°C		530°C		560°C		590°C		575°C		503°C			
Maximum exhaust gas flow	33,9m3/h		33,9m3/h		2982m3/h		51,2m3/h		52,9m3/h		80,1m3/h			
Maximum allowed back pressure	5,9kPa													
ALTERNATOR														
Brand	Tescom / Stamford													
Poles	4 Poles													
Frequency	50/60HZ													
Winding connections	Star													
Insulation	Class H													
Enclosure	IP23													
Power factor	0,8													
Altitude	1000m													
Exciter system	Self exication													
Voltage regulator	AVR													
Steady state voltage regulation	± 1%													
Direction of rotation	Clockwise													
Cooling	Direct drive centrifugal blower fan													

(*) **TDJ220-485DT** Doosan Motor - Tescom Alternator / **TDJ220-485DS** Doosan Motor - Stamford Alternator

TECHNICAL SPECIFICATIONS

DOOSAN

	TDJ510DT / TDJ510DSS (*)		TDJ585DT / TDJ585DSS (*)		TDJ630DT / TDJ630DSS (*)		TDJ705DT / TDJ705DSS (*)		TDJ750DT / TDJ750DSS (*)		TDJ825DT / TDJ825DSS (*)		TDJ1000DT / TDJ1000DSS (*)	
Standby (kVA/kW)	510	408	585	468	630	504	705	564	750	600	825	660	1000	800
Prime (kVA/kW)	464	371	532	425	573	458	641	513	682	545	750	600	909	727
Open type size (LxWxH mm)	3300 x 1600 x 1990				4000 x 1700 x 2070						4000 x 1700 x 2040		3760 x 2050 x 2266	
With cabinet (LxWxH mm)	4150 x 1600 x 2555				4900 x 1700 x 2700						4900 x 1700 x 2700		4950 x 2050 x 2720	
Open type weight (kg)	3612		3728		4280		4390		4775		4899		6281	
Open type weight (kg) (Except for antifreeze and oil)	3511		3627		4155		4265		4621		4745		6140	
Weight with cabinet (kg)	4287		4403		5025		5135		5520		5644		7991	
Weight with cabinet (kg) (Except for antifreeze and oil)	4186		4302		4900		5010		5366		5490		7850	
Tank capacity (L)	790				1020								1035	
MOTOR														
Frequency	50Hz													
Manufacturer and model	DOOSAN DP158LC		DOOSAN DP158LD		DOOSAN DP180LA		DOOSAN DP180LB		DOOSAN DP222LB		DOOSAN DP222LC		DOOSAN DP222CC	
Engine power	433/589 (kWm/hp)		494/672 (kWm/hp)		536/729 (kWm/hp)		596/810 (kWm/hp)		640/870 (kWm/hp)		699/950 (kWm/hp)		854/1161 (kWm/hp)	
Revolution per min.	1500 r.p.m													
Total displacement	14,618lt				18,273lt				21,927lt					
Cylinders orientation	8 Cylinders - V type				10 Cylinders - V type				12 Cylinders - V type					
Bore x Stroke	128 x 142mm													
Compression ratio	15:1		15:1										14.6:1	
Governor type	Electronical													
Aspiration system	Turbo CAC												Turbo Intercooler	
Injection	Direct													
Cooling	Water													
Electrical system	24VDC													
Lub-oil capacity	22lt				34lt				40lt				75lt	
Engine coolant capacity	79lt				91lt				114lt				66lt	
Cooling air flow	700 m3/min.								860 m3/min.				1266 m3/min.	
Fuel	Diesel													
FUEL CONSUMPTION														
100% Load	99,6lt/h		115,1lt/h		123,6lt/h		136,4lt/h		147,1lt/h		161lt/h		190lt/h	
75% Load	72,9lt/h		83,4lt/h		94,2lt/h		103,8lt/h		109,2lt/h		119,1lt/h		147lt/h	
50% Load	48,9lt/h		55,1lt/h		64,8lt/h		71,2lt/h		73lt/h		79,3lt/h		102lt/h	
EXHAUST SYSTEM														
Maximum exhaust temperature	507°C		536°C		540°C		563°C		459°C		478°C		530°C	
Maximum exhaust gas flow	88m3/h		98m3/h		106m3/h		118m3/h		101m3/h		108m3/h		123m3/h	
Maximum allowed back pressure	5,9kPa													
ALTERNATOR														
Brand	Tescom / Stamford													
Poles	4 Poles													
Frequency	50/60HZ													
Winding connections	Star													
Insulation	Class H													
Enclosure	IP23													
Power factor	0,8													
Altitude	1000m													
Exciter system	Self exication													
Voltage regulator	AVR													
Steady state voltage regulation	± 1%													
Direction of rotation	Clockwise													
Cooling	Direct drive centrifugal blower fan													

(*) **TDJ510-1000DT** Doosan Motor - Tescom Alternator / **TDJ510-1000DS** Doosan Motor - Stamford Alternator

TECHNICAL SPECIFICATIONS

	TDJ33FPT		TDJ50FPT		TDJ66FPT		TDJ90FPT		TDJ110FPT		TDJ130FPT		TDJ175FPT		TDJ220FPT	
Standby (kVA/kW)	33	26	50	40	66	52	90	72	110	88	130	104	175	140	220	176
Prime (kVA/kW)	30	24	45	36	60	48	82	65	100	80	118	95	159	127	200	160
Open type size (LxWxH mm)	2263 x 1000 x 1300				2463 x 1000 x 1450		2863 x 1100 x 1750				3063 x 1100 x 1750				3563 x 1200 x 1850	
With cabinet (LxWxH mm)	2263 x 1000 x 1500				2463 x 1000 x 1750		2863 x 1100 x 1950				3063 x 1100 x 1950				3563 x 1200 x 2050	
Open type weight (kg)	686		711		1113		1131				1456		1494		2003	
Open type weight (kg) (Except for antifreeze and oil)	668,2		679,7		1081,7		1099,7				1424,7		1451,3		1960,3	
Weight with cabinet (kg)	826		871		1273		1416				1806		1844		2453	
Weight with cabinet (kg) (Except for antifreeze and oil)	808,2		839,7		1241,7		1384,7				1774,7		1801,3		2410,3	
Tank capacity (L)	122		150								327				360	
MOTOR																
Frequency	50Hz															
Manufacturer and model	FPT-IVECO 80313 AM1P		FPT-IVECO NEi45 AM1A		FPT-IVECO NEi45 SM1A		FPT-IVECO NEi45 SM3		FPT-IVECO NEi45 IM2A		FPT-IVECO NEi45 IM3		FPT-IVECO NEi45 IM3		FPT-IVECO NEi67 IM7	
Output rating	32kW		50kW		59kW		81kW		96kW		118kW		152kW		194kW	
Fuel	Diesel															
Injection	Direct															
Aspiration	Naturally aspirated				Turbocharged				Aftercooler / Turbocharged							
Cylinders	3		4										6			
Bore and Stroke	104 x 115mm		104 x 132mm													
Displacement	2,9 lt		4,5 lt										6,7lt			
Cooling	Water															
Engine oil specification	SAE 15W40															
Compression ratio	17:01		17,5:1													
Engine oil capacity (sump only)	8,8lt		12,8lt										17,2lt			
Coolant capacity (incl.radiator)	9lt		18,5lt										25,5lt			
Governor	Mechanical															
Air filter	Dry element															
FUEL CONSUMPTION																
100% Load	6lt/h		11,6lt/h		13,7lt/h		19,4lt/h		22lt/h		27,6lt/h		36lt/h		42,1t/h	
75% Load	4,8lt/h		9,8lt/h		10,2lt/h		15,4lt/h		16,2lt/h		21,6lt/h		29lt/h		37,3lt/h	
50% Load	3,2lt/h		6,2lt/h		7lt/h		9,6lt/h		11lt/h		14,4lt/h		18lt/h		24lt/h	
EXHAUST SYSTEM																
Maximum temperature	<525°C		<504°C		<483°C		<516°C		<535°C		<540°C		<570°C		<600°C	
Exhaust gas flow	153kg/h		211kg/h		325kg/h		345kg/h		533kg/h		538kg/h		739kg/h		793kg/h	
Maximum exhaust back pressure	70mBar		100mBar		50mBar		50mBar		50mBar		50mBar		50mBar		50mBar	
Exhaust flange size (internal dia.)	52mm		53mm		53mm		70mm		70mm		70mm		70mm		83mm	
AIR SYSTEM																
Intake air flow	125m³/h		170m³/h		260m³/h		273m³/h		427m³/h		427m³/h		586m³/h			
Total cooling air flow	TBA				111,6m³/h		132m³/h						228m³/h			
STARTING SYSTEM																
Starter motor	2,8kW						3kW									
Battery capacity	60Ah						72Ah		100Ah							
Auxiliary voltage	12V															
ALTERNATOR																
Brand	Tescom															
Poles	4 Poles															
Frequency	50/60HZ															
Winding connections	Star															
Insulation	Class H															
Enclosure	IP23															
Power factor	0,8															
Altitude	1000m															
Exciter system	Self exication															
Voltage regulator	AVR															
Steady state voltage regulation	± 1%															
Direction of rotation	Clockwise															
Cooling	Direct drive centrifugal blower fan															

TECHNICAL SPECIFICATIONS

	TDJ275FPT		TDJ330FPT		TDJ385FPT		TDJ440FPT		TDJ495FPT		TDJ550FPT		TDJ660FPT	
Standby (kVA/kW)	275	220	330	264	385	308	440	352	495	396	550	440	660	528
Prime (kVA/kW)	250	200	300	240	350	280	400	320	450	360	500	400	600	480
Open type size (LxWxH mm)	3563 x 1200 x 1850				3762 x 1400 x 2080						4280 x 1800 x 2316			
With cabinet (LxWxH mm)	3563 x 1200 x 2050				3762 x 1400 x 2380						4280 x 1800 x 2716			
Open type weight (kg)	2154		2994		3069				3169		4792		5008	
Open type weight (kg) (Except for antifreeze and oil)	2109,2		2918		2967		2966		3098,9		4721,9		4923,5	
Weight with cabinet (kg)	2554		3444		3569				3639		5442		5658	
Weight with cabinet (kg) (Except for antifreeze and oil)	2509,2		3368		3467		3466		3568,9		5371,9		5573,5	
Tank capacity (L)	360				430						900			
MOTOR														
Frequency	50Hz													
Manufacturer and model	FPT-IVECO NEI67 IE8P		FPT-IVECO C87 IE4		FPT-IVECO C13 IE2A		FPT-IVECO C13 IE3A		FPT-IVECO CR13 IE6W		FPT-IVECO CR13 IE7W		FPT-IVECO CR16 IE1W	
Output rating	222kW		262kW		330kW		387kW		414kW		459kW		559kW	
Fuel	Diesel													
Injection	Direct													
Aspiration	Direct Common Rail				Direct E.U.I				Direct Electronic Common Rail					
Cylinders	6													
Bore and Stroke	104 x 132mm		117 x 135mm		135 x 150mm								141 x 170mm	
Displacement	6,7 lt		8,7 lt		12,88lt								15,9lt	
Cooling	Water													
Engine oil specification	SAE 15W40													
Compression ratio	17,5:1		16,5:1										15,5:1	
Engine oil capacity (sump only)	17,2lt		28lt		35lt				32lt					
Coolant capacity (incl.radiator)	27,6lt		48lt		67lt		68lt		38,1lt				52,5lt	
Governor	Electronical (ECU)													
Air filter	Dry element													
FUEL CONSUMPTION														
100% Load	51,5t/h		68,6t/h		70lt/h		85,8lt/h		89,9lt/h		100,6lt/h		115lt/h	
75% Load	41,2lt/h		55,6lt/h		57,3lt/h		70,4lt/h		72,5lt/h		80,2lt/h		85lt/h	
50% Load	26,2lt/h		33,6lt/h		38,8lt/h		42,8lt/h		51,8lt/h		51,5lt/h		57lt/h	
EXHAUST SYSTEM														
Maximum temperature	<500°C		<511°C		<479°C		<445°C		<471°C		<520°C		<577,4°C	
Exhaust gas flow	970kg/h		1555kg/h		1865kg/h		2210kg/h		1731kg/h		2027kg/h		2548kg/h	
Maximum exhaust back pressure	30mBar		100mBar		50mBar									
Exhaust flange size (internal dia.)	70mm		94,5mm										106mm	
AIR SYSTEM														
Intake air flow	1000m³/h		1240m³/h		1495m³/h		1770m³/h		1443m³/h		1576m³/h		2435m³/h	
Total cooling air flow	246m³/h		339m³/h		408m³/h									
STARTING SYSTEM														
Starter motor	3kW		4,5kW		5,5kW		6kW		7,8kW					
Battery capacity	2 x 100Ah										2 x 120Ah			
Auxiliary voltage	24V													
ALTERNATOR														
Brand	Tescom													
Poles	4 Poles													
Frequency	50/60HZ													
Winding connections	Star													
Insulation	Class H													
Enclosure	IP23													
Power factor	0,8													
Altitude	1000m													
Exciter system	Self exication													
Voltage regulator	AVR													
Steady state voltage regulation	± 1%													
Direction of rotation	Clockwise													
Cooling	Direct drive centrifugal blower fan													

TECHNICAL SPECIFICATIONS

	TDJ76ST		TDJ100ST		TDJ135ST		TDJ150ST		TDJ175ST		TDJ200ST		TDJ225ST		TDJ236ST		TDJ260ST		TDJ300ST		TDJ330ST	
Standby (kVA/kW)	76	61	100	80	135	108	150	120	175	140	200	160	225	180	236	189	260	208	300	240	330	264
Prime (kVA/kW)	69	55	91	73	123	98	136	109	159	127	180	144	205	164	215	172	236	189	273	218	300	240
Open type size (LxWxH mm)	2070 x 1100 x 1450				2470 x 1100 x 1520				2710 x 1150 x 1600						2795 x 1150 x 1710				2980 x 1300 x 1750		3200 x 1500 x 1865	
With cabinet (LxWxH mm)	2650 x 1100 x 1890				2950 x 1100 x 1970				3300 x 1150 x 2260										3645 x 1300 x 2300		4302 x 1500 x 2485	
Open type weight (kg)	1084		1158		1412		1414		1672		1673		1761		1927		1943		2415		2689	
Open type weight (kg) (Except for antifreeze and oil)	1047,7		1121,2		1375,2		1377,2		1623,4		1624,4		1712,4		1868		1884		2350		2571,8	
Weight with cabinet (kg)	1344		1418		1742		1744		2102		2103		2191		2357		2373		2905		3334	
Weight with cabinet (kg) (Except for antifreeze and oil)	1307,7		1381,2		1705,2		1707,2		2053,4		2054,4		2142,4		2298		2314		2840		3219,8	
Tank capacity (L)	185				280				300										400		515	
MOTOR																						
Frequency	50Hz																					
Manufacturer and model	SDEC SC4H95D2		SDEC SC4H115D2		SDEC SC4H160D2		SDEC SC4H180D2		SDEC SC7H230D2		SDEC SC7H230D2		SDEC SC7H250D2		SDEC SC9D280D2		SDEC SC9D310D2		SDEC SC9D340D2		S SDEC C10E380D2	
Engine power	68/92 (kWm/hp)		86/117 (kWm/hp)		116/158 (kWm/hp)		132/179 (kWm/hp)		170/231 (kWm/hp)				185kW		204/277 (kWm/hp)		228/310 (kWm/hp)		250/340 (kWm/hp)		262/356 (kWm/hp)	
Revolution per min.	1500r.p.m																					
Total displacement	4,3lt								6,44lt						8,27lt				8,82lt		11,8lt	
Cylinders orientation	4 Vertical In-line								6 Vertical In-line													
Bore x Stroke	105 x 124 mm														114 x 135mm		114 x 144mm				128 x 135mm	
Compression ratio	17,3:1				16:1								16:01		18:1				16,5:1		17:1	
Governor type	Electronical																					
Aspiration system	Turbo				Turbo AAC																Turbocharged	
Injection	Direct																					
Cooling	Water																					
Electrical system	24VDC																					
Lub-oil capacity	13lt								17,5lt						19lt				25lt		41lt	
Engine coolant capacity	23,8lt								31,1lt						40lt						73,2lt	
Cooling air flow	-																		18,6m³/min		17,3m³/min	
Fuel	Diesel																					
FUEL CONSUMPTION																						
100% Load	14,8lt/h		20,2lt/h		25lt/h		28,6lt/h		36lt/h		36lt/h		39,3lt/h		48,6lt/h		50,6lt/h		54,1lt/h		60,8lt/h	
75% Load	11lt/h		15,2lt/h		16,7lt/h		21,4lt/h		26,8lt/h		26,8lt/h		29,1lt/ h		36,2lt/h		38,2lt/h		40,8lt/h		49,4lt/h	
50% Load	7,5lt/h		10,3lt/h		12,8lt/h		14,4lt/h		17,8lt/h		17,8lt/h		19,4lt/h		24,3lt/h		26,3lt/h		27,3lt/h		32,1lt/h	
EXHAUST SYSTEM																						
Max. exhaust temperature	600°C																					
Max. exhaust gas flow	10,4m³/h		14,1m³/h		16,3m³/h		18,2m³/h		27,2m³/h						35,9m³/h				41m³/h		2628m³/h	
Max. allowed back pressure	6kPa								5kPa												6kPa	
ALTERNATOR																						
Brand	Tescom																					
Poles	4 Poles																					
Frequency	50/60HZ																					
Winding connections	Star																					
Insulation	Class H																					
Enclosure	IP23																					
Power factor	0,8																					
Altitude	1000m																					
Exciter system	Self exication																					
Voltage regulator	AVR																					
Steady state voltage regulation	± 1%																					
Direction of rotation	Clockwise																					
Cooling	Direct drive centrifugal blower fan																					

TECHNICAL SPECIFICATIONS

	TDJ400ST		TDJ440ST		TDJ500ST		TDJ550ST		TDJ600ST		TDJ660ST		TDJ725ST		TDJ800ST		TDJ900ST		TDJ1000ST		TDJ1100ST	
Standby (kVA/kW)	400	320	440	352	520	416	550	440	600	480	660	528	725	580	800	640	900	720	1000	800	1100	880
Prime (kVA/kW)	364	291	400	320	472	377,6	500	400	540	436	600	480	659	527	727	582	818	655	910	727	1000	800
Open type size (LxWxH mm)	3275 x 1500 x 1880				3900 x 1900 x 2320										4300 x 1900 x 2295		5500 x 2000 x 2465		6000 x 2100 x 2350		5500 x 2200 x 2550	
With cabinet (LxWxH mm)	4300 x 1500 x 2510				4800 x 1900 x 2800										5300 x 1900 x 2810		6000 x 2000 x 2805		6000 x 2100 x 2800		6000 x 2200 x 2750	
Open type weight (kg)	3099		3452		4890		4940		5102		5103		5278		5636		7123		7512		8578	
Open type weight (kg) (Except for antifreeze and oil)	2982,5		3335,5		4710		4760		4922		4923		5098		5456		7048		7279		8320	
Weight with cabinet (kg)	3744		4097		5815		5865		6027		6028		6203		6502		8833		9222		10288	
Weight with cabinet (kg) (Except for antifreeze and oil)	3627,5		3980,5		5635		5685		5847		5848		5843		6322		8758		8989		10030	
Tank capacity (L)	515				1100										1020		1000		1160		1400	
MOTOR																						
Frequency	50Hz																					
Manufacturer and model	SDEC SC15G500D2				SDEC SC25G610D2		SDEC SC25G610D2		SDEC SC25G690D2		SDEC SC27G755D2		SDEC SC27G830D2		SDEC SC27G900D2		SDEC 6KTAA25-G32		SDEC SC3W1150D2		SDEC 6WTAA35-G31	
Engine power	373/507 (kWm/hp)				445/605 (kWm/hp)				505/687 (kWm/hp)		555/755 (kWm/hp)		610/830 (kWm/hp)		662/900 (kWm/hp)		754/1025 (kWm/hp)		860/1169 (kWm/hp)		970/1320 (kWm/hp)	
Revolution per min.	1500 r.p.m																					
Total displacement	14,16lt				25,8lt						26,6lt						25,18lt		32,8lt		35,1lt	
Cylinders orientation	6 Vertical In-line				12 Vertical In-line												6 Vertical In-line					
Bore x Stroke	136 x 165mm				135 x 150mm						135 x 155mm						170 x 185mm		180 x 215mm		186 x 215mm	
Compression ratio	15,55:1				16:1												14,5:1		15:1			
Governor type	Electronical																					
Aspiration system	Turbo AAC																					
Injection	Direct																					
Cooling	Water																					
Electrical system	24VDC																					
Lub-oil capacity	41lt				65lt												75lt				100lt	
Engine coolant capacity	75,5lt				115lt												TBA		158lt			
Cooling air flow	TBA																					
Fuel	Diesel																					
FUEL CONSUMPTION																						
100% Load	73,8lt/h		81lt/h		100,4lt/h				113,8lt/h		126lt/h		141lt/h		148,8lt/h		163lt/h		101,1lt/h		188,1lt/h	
75% Load	54,3lt/h		60lt/h		75,8lt/h				85,9lt/h		95,3lt/h		106,7lt/h		163,7lt/h		124lt/h		146,3lt/h		136,6lt/h	
50% Load	37,4lt/h		41lt/h		53,6lt/h				60,7lt/h		66,3lt/h		74,1lt/h		76,7lt/h		84lt/h		193,5lt/h		92,9lt/h	
EXHAUST SYSTEM																						
Max. exhaust temperature	600°C				650°C						600°C				650°C		690°C				650°C	
Max. exhaust gas flow	50,5m³/h				86m³/h				88,6m³/h		91,8m³/h		99,5m³/h		138m³/h		TBA		194,1m³/h		162,6m³/h	
Max. allowed back pressure	5kPa						6kPa		5kPa		10kPa						6kPa					
ALTERNATOR																						
Brand	Tescom																					
Poles	4 Poles																					
Frequency	50/60HZ																					
Winding connections	Star																					
Insulation	Class H																					
Enclosure	IP23																					
Power factor	0,8																					
Altitude	1000m																					
Exciter system	Self exication																					
Voltage regulator	AVR																					
Steady state voltage regulation	± 1%																					
Direction of rotation	Clockwise																					
Cooling	Direct drive centrifugal blower fan																					

TECHNICAL SPECIFICATIONS

	TDJ22P		TDJ33P		TDJ50P		TDJ66P		TDJ70P		TDJ88P		TDJ110P		TDJ150P	
Standby (kVA/kW)	22	17,6	33	26,4	50	40	66	52,8	70	56	88	70,4	110	88	150	120
Prime (kVA/kW)	20	16	30	24	45	36	60	48	63	50,4	80	64	100	80	135	108
Open type size (LxWxH mm)	2263 x 900 x 1300				2263 x 1000 x 1300						2863 x 1100 x 1750				3063 x 1100 x 1750	
With cabinet (LxWxH mm)	2263 x 900 x 1500				2263 x 1000 x 1500						2863 x 1100 x 1950				3063 x 1100 x 1950	
Open type weight (kg)	619		686		711		1113				1131				1456	
Open type weight (kg) (Except for antifreeze and oil)	601,4		667,5		692,5		1094,5		1092		1110		1110,4		1417	
Weight with cabinet (kg)	769		826		871		1273				1416				1806	
Weight with cabinet (kg) (Except for antifreeze and oil)	751,4		807,5		852,5		1254,5		1252		1395		1395,4		1767	
Tank capacity (L)	122				150										327	
MOTOR																
Frequency	50Hz															
Manufacturer and model	Perkins 404A 22G1		Perkins 1103A 33G		Perkins 1103A 33TG1		Perkins 1103A 33TG2		Perkins 1104A 44TG1		Perkins 1104A 44TG2		Perkins 1104C 44TAG2		Perkins 1106A-70TG1	
Output rating	20,6kW		30,4kW		45,6kW		59,3kW		64,3kW		79,1kW		99,5kW		135,8kW	
Fuel	Diesel															
Injection	Direct															
Aspiration	Naturally aspirated				Turbocharged								Aftercooler / Turbocharged		Turbocharged	
Cylinders	4		3						4						6	
Bore and Stroke	84 x 100mm		105 x 127mm												105 x 135mm	
Displacement	2,216lt		3,3 lt						4,4 lt						7,01 lt	
Cooling	Water															
Engine oil specification	SAE 15W40															
Compression ratio	23,3:1		19,25:1		17,25:1								18-23:1		18.2:1	
Engine oil capacity (sump only)	10,6lt		8,3lt						8lt						18lt	
Coolant capacity (incl.radiator)	7lt		10,2lt						13lt				12,6lt		21lt	
Governor	Mechanical								Electronical							
Air filter	Dry element															
FUEL CONSUMPTION																
100% load	5,3lt/h		7,1lt/h		10,7lt/h		13,9lt/h		14,8lt/h		18,7lt/h		22,6lt/h		30,3lt/h	
75% load	4lt/h		5,4lt/h		8,2lt/h		10,4lt/h		11,2lt/h		14,0lt/h		17,1lt/h		22,7lt/h	
50% load	2,9lt/h		3,9lt/h		5,7lt/h		7,2lt/h		8lt/h		9,7lt/h		11,8lt/h		15,9lt/h	
EXHAUST SYSTEM																
Maximum temperature	<505°C		<520°C		<537°C		<571°C		<550°C		<580°C		<543°C		<576°C	
Exhaust gas flow	3,94m³/min		5,8m³/min		7,7m³/min		10,4m³/min		11,4m³/min		13,3m³/min		16,3m³/min		22,6m³/min	
Maximum exhaust back pressure	102mBar		80mBar		100mBar								180mBar		60mBar	
Exhaust flange size (internal dia.)	42mm		52mm				56mm		64mm						72mm	
AIR SYSTEM																
Intake air flow	1,45m³/min		2,13m³/min		3,1m³/min				4,2m³/min		5,14m³/min		6,27m³/min		8,09m³/min	
Air intake temperature rise	40,3lt/min		53m³/min				89m³/min						165,6m³/min		182m³/min	
STARTING SYSTEM																
Starter motor	2kW		3kW												4,2kW	
Battery capacity	60Ah								72Ah				100Ah			
Auxiliary voltage	12V															
ALTERNATOR																
Brand	Leroy Somer, Meccalte															
Poles	4 Poles															
Frequency	50/60HZ															
Winding connections	Star															
Insulation	Class H															
Enclosure	IP23															
Power factor	0,8															
Altitude	1000m															
Exciter system	Self exication															
Voltage regulator	AVR															
Steady state voltage regulation	± 1%															
Direction of rotation	Clockwise															
Cooling	Direct drive centrifugal blower fan															

TECHNICAL SPECIFICATIONS

Perkins

	TDJ165P		TDJ220P		TDJ250P		TDJ275P		TDJ330P		TDJ385P		TDJ440P		TDJ500P	
Standby (kVA/kW)	165	132	220	176	250	200	275	220	330	264	385	308	440	352	500	400
Prime (kVA/kW)	150	120	200	160	225	180	250	200	300	240	350	280	400	320	450	360
Open type size (LxWxH mm)	3063 x 1100 x 1750		3563 x 1200 x 1850								3762 x 1400 x 2080					
With cabinet (LxWxH mm)	3063 x 1100 x 1950		3563 x 1200 x 2050								3762 x 1400 x 2380					
Open type weight (kg)	1494		2003		2154				2317		2994		3069			
Open type weight (kg) (Except for antifreeze and oil)	1455		1964		2113				2242,8		2902,6		2977,6		2949	
Weight with cabinet (kg)	1844		2453		2554				2767		3444		3569			
Weight with cabinet (kg) (Except for antifreeze and oil)	1805		2414		2513				2692,8		3352,6		3477,6		3449	
Tank capacity (L)	327		360								430					
MOTOR																
Frequency	50Hz															
Manufacturer and model	Perkins 1106A 70TAG2		Perkins 1106A 70TAG4		Perkins 1206A E70TTAG2		Perkins 1206A E70TTAG3		Perkins 1706A E93TAG1		Perkins 1706A E93TAG2		Perkins 220 6A E13TAG3		Perkins 250 6A E15TAG1	
Output rating	149,1kW		196,3kW		226,1kW		248,6kW		293kW		368kW		412,5kW		451kW	
Fuel	Diesel															
Injection	Direct															
Aspiration	Aftercooler/Turbocharged															
Cylinders	6															
Bore and Stroke	105 x 135mm								112 x 149mm		130 x 157mm				130 x 171mm	
Displacement	7,01 lt								8,8 lt		12,5 lt				15,2 lt	
Cooling	Water															
Engine oil specification	SAE 15W40															
Compression ratio	18.2:1		16:01		15.8:1				16,1:1		16,3:1					
Engine oil capacity (sump only)	18lt				16lt				41lt		40lt				62lt	
Coolant capacity (incl.radiator)	21lt				25lt				33,2lt		51,4lt				58lt	
Governor	Electronical															
Air filter	Dry element															
FUEL CONSUMPTION																
100% load	30,4lt/h		45,8lt/h		51lt/h		56,9lt/h		64,9lt/h		71lt/h		81lt/h		95lt/h	
75% load	24,7lt/h		34,7lt/h		38lt/h		41,5lt/h		48,2lt/h		54lt/h		62lt/h		72lt/h	
50% load	16,4lt/h		23,1lt/h		25,5lt/h		28,1lt/h		33,0lt/h		37lt/h		42lt/h		50lt/h	
EXHAUST SYSTEM																
Max. temperature	<484°C		<550°C		TBA				<574°C		<630°C				<550°C	
Exhaust gas flow	25,53m³/min		36,8m³/min		TBA				50m³/min		64,8m³/min		72,5m³/min		81m³/min	
Max. exhaust back pressure	60mBar				TBA				100mBar		68mBar					
Exhaust flange size (internal dia.)	72mm				72mm				TBAmm		123mm				127mm	
AIR SYSTEM																
Intake air flow	10,67m³/min		13,2m³/min		TBA				18,3m³/min		23,6m³/min		26,4m³/min		30,5m³/min	
Air intake temperature rise	282m³/min				TBA				370m³/min		654m³/min				866m³/min	
STARTING SYSTEM																
Starter motor	4,2kW				TBA				5,3 or 6 kW		7,8kW				7,5kW	
Battery capacity	100Ah								2 x 100Ah		2 x 120Ah					
Auxiliary voltage	12V								24V							
ALTERNATOR																
Brand	Leroy Somer, Meccalte															
Poles	4 Poles															
Frequency	50/60HZ															
Winding connections	Star															
Insulation	Class H															
Enclosure	IP23															
Power factor	0,8															
Altitude	1000m															
Exciter system	Self exication															
Voltage regulator	AVR															
Steady state voltage regulation	± 1%															
Direction of rotation	Clockwise															
Cooling	Direct drive centrifugal blower fan															

LEROY SOMER™ meccalte

TECHNICAL SPECIFICATIONS

	TDJ550P		TDJ660P		TDJ715P		TDJ825P		TDJ880P		TDJ1100P		TDJ1250P	
Standby (kVA/kW)	550	440	660	528	725	580	825	660	880	704	1100	888	1250	1000
Prime (kVA/kW)	500	400	600	480	650	520	750	600	800	640	1000	800	1125	900
Open type size (LxWxH mm)	4280 x 1800 x 2316				4700 x 2000 x 2480				5500 x 2300 x 2830				6000 x 2400 x 2850	
With cabinet (LxWxH mm)	280 x 1800 x 2716				4700 x 2000 x 2780				5500 x 2300 x 3330				6000 x 2400 x 3200	
Open type weight (kg)	3169		5528		6928		7318		7481		8246		9135	
Open type weight (kg) (Except for antifreeze and oil)	3049		5405		6805		7140,5		7247,6		7954		8842	
Weight with cabinet (kg)	3639		6278		8128		8518		8681		10746		11635	
Weight with cabinet (kg) (Except for antifreeze and oil)	3519		6155		8005		8340,5		8447,6		10454		11342	
Tank capacity (L)	900				1250				1500				2000	
MOTOR														
Frequency	50Hz													
Manufacturer and model	Perkins 250 6A E15TAG2		Perkins 280 6A E18TAG1A		Perkins 280 6A E18TAG2		Perkins 280 6A E18TTAG5 SAE1 14		Perkins 4006 23TAG3A		Perkins 4008 TAG2A		Perkins 4008 30TAG3	
Output rating	495kW		592kW		628kW		743kW		786kW		924kW		1105kW	
Fuel	Diesel													
Injection	Direct													
Aspiration	Aftercooler/Turbocharged								Turbocharged		Turbocharged and Aircooled		Turbocharged and air to air charge cooled	
Cylinders	6										8			
Bore and Stroke	130 x 171 mm		145 x 183mm						160 x 19 mm					
Displacement	15,2 lt		18,13 lt				18,1 lt		22,92 lt		30,56 lt			
Cooling	Water													
Engine oil specification	SAE 15W40													
Compression ratio	16,3:1		14,5:1				14:01		13,6:1				13:01	
Engine oil capacity (sump only)	62lt						68lt		113,4lt		149lt		153lt	
Coolant capacity (incl.radiator)	58lt		61lt				109,5lt		120lt		143lt		140lt	
Governor	Electronical													
Air filter	Dry element													
FUEL CONSUMPTION														
100% load	100lt/h		123lt/h		132lt/h		162lt/h		172lt/h		220lt/h		244lt/h	
75% load	76lt/h		90lt/h		97lt/h		118lt/h		130lt/h		160lt/h		188lt/h	
50% load	53lt/h		61lt/h		66lt/h		81lt/h		90lt/h		108lt/h		120lt/h	
EXHAUST SYSTEM														
Maximum temperature	<550°C		<571°C		<553°C		<474°C		<500°C		<440°C		<482°C	
Exhaust gas flow	98m³/min		104m³/min		114m³/min		142m³/min		193m³/min		183m³/min		240m³/min	
Maximum exhaust back pressure	68mBar		69mBar				100mBar		60mBar		TBA		70mBar	
Exhaust flange size (internal dia.)	127mm		202mm				139,7mm		152,4mm		152mm			
AIR SYSTEM														
Intake air flow	36,6m³/min		36m³/min		40m³/min		62m³/min		73m³/dk		74m³/min		96m³/min	
Air intake temperature rise	722m³/min		702m³/min				TBA		870m³/min				TBA	
STARTING SYSTEM														
Starter motor	7,5kW		9kW						7,5kW		8,2kW			
Battery capacity	2 x 120Ah		2 x 150Ah											
Auxiliary voltage	24V													
ALTERNATOR														
Brand	Leroy Somer, Meccalte													
Poles	4 Poles													
Frequency	50/60HZ													
Winding connections	Star													
Insulation	Class H													
Enclosure	IP23													
Power factor	0,8													
Altitude	1000m													
Exciter system	Self exication													
Voltage regulator	AVR													
Steady state voltage regulation	± 1%													
Direction of rotation	Clockwise													
Cooling	Direct drive centrifugal blower fan													

TECHNICAL SPECIFICATIONS

	TDJ25BT / TDJ25BS (*)		TDJ35BT / TDJ35BS (*)		TDJ44BT / TDJ44BS (*)		TDJ50BT / TDJ50BS (*)		TDJ55BT / TDJ55BS (*)		TDJ70BT / TDJ70BS (*)		TDJ88BT / TDJ88BS (*)	
Standby (kVA/kW)	25	20	35	28	44	35	50	40	55	44	70	56	88	70
Prime (kVA/kW)	23	18	32	25	40	32	45	36	50	40	63	51	80	64
Open type size (LxWxH mm)	1470 x 950 x 1065		1470 x 950 x 1065		1480 x 1000 x 1140		1480 x 1000 x 1170		1640 x 1000 x 1170		2070 x 1100 x 1450			
With cabinet (LxWxH mm)	2200 x 950 x 1406		2200 x 950 x 1406		2250 x 1000 x 1651		2250 x 1000 x 1651		2250 x 1000 x 1690		2650 x 1100 x 1881			
Open type weight (kg)	554		613		661		686		714		906		1135	
Open type weight (kg) (Except for antifreeze and oil)	533,9		592,1		640,1		666,1		696,4		872,4		1101,4	
Weight with cabinet (kg)	749		808		869		894		922		1126		1395	
Weight with cabinet (kg) (Except for antifreeze and oil)	728,9		787,1		848,1		874,1		904,4		1092,4		1361,4	
Tank capacity (L)	62				105						185			
MOTOR														
Frequency	50Hz													
Manufacturer and model	BAUDOUIN 4M06G25/5		BAUDOUIN 4M06G35/5		BAUDOUIN 4M06G44/5		BAUDOUIN 4M06G50/5		BAUDOUIN 4M06G55/5		BAUDOUIN 4M10G70/5		BAUDOUIN 4M10G88/5	
Engine power	24/32 (kWm/hp)		32/43 (kWm/hp)		40/54 (kWm/hp)		47/62 (kWm/hp)		51/69 (kWm/hp)		63/85 (kWm/hp)		77/104 (kWm/hp)	
Revolution per min.	1500r.p.m													
Total displacement	2,3lt										4,087			
Cylinders orientation	4 Cylinders Vertical In-line													
Bore x Stroke	89 × 92mm										105 x 118mm			
Compression ratio	17,5:1													
Governor type	Electronical													
Aspiration system	Naturally aspirated		Turbocharged											
Injection	Direct													
Cooling	Water													
Electrical system	12VDC													
Lub-oil capacity	11,5lt								9,2lt		16lt			
Engine coolant capacity	8,6lt		9,4lt				8,4lt				17,9lt			
Cooling air flow	63m3/min		48m3/min		84,3m3/min		102m3/min				146m3/min			
Fuel	Diesel													
FUEL CONSUMPTION														
100% load	6,1lt/h		7,6lt/h		9,5lt/h		10,7lt/h		11,9lt/h		15lt/h		18,8lt/h	
75% load	4,5lt/h		5,7lt/h		7lt/h		8lt/h		8,9lt/h		11,1lt/h		13,5lt/h	
50% load	3,2lt/h		4lt/h		4,7lt/h		5,4lt/h		6lt/h		7,7lt/h		9,1lt/h	
EXHAUST SYSTEM														
Maximum exhaust temperature	700°C													
Maximum exhaust gas flow	319,2m³/h		389m³/h		475,2m³/h		565,2m³/h		583,2m³/h		852m³/h		1035m³/h	
Maximum allowed back pressure	8kPa								7,5kPa		5kPa			
ALTERNATOR														
Brand	Tescom / Stamford													
Poles	4 Poles													
Frequency	50/60HZ													
Winding connections	Star													
Insulation	Class H													
Enclosure	IP23													
Power factor	0,8													
Altitude	1000m													
Exciter system	Self exication													
Voltage regulator	AVR													
Steady state voltage regulation	± 1%													
Direction of rotation	Clockwise													
Cooling	Direct drive centrifugal blower fan													

(*) **TDJ25-88BT** Baudouin Motor - Tescom Alternator / **TDJ25-88BS** Baudouin Motor - Stamford Alternator

TECHNICAL SPECIFICATIONS

	TDJ110BT / TDJ110BS (*)		TDJ150BT / TDJ150BS (*)		TDJ165BT / TDJ165BS (*)		TDJ220BT / TDJ165BS (*)		TDJ250BT / TDJ250BS (*)		TDJ275BT / TDJ275BS (*)		TDJ350BT / TDJ350BS (*)	
Standby (kVA/kW)	110	88	150	120	165	132	220	176	250	200	275	220	350	280
Prime (kVA/kW)	100	80	136	109	150	120	200	160	227	182	250	200	317	254
Open type size (LxWxH mm)	2070 x 1100 x 1450		2470 x 1100 x 1480				2980 x 1300 x 2255		2980 x 1300 x 1620		2980 x 1300 x 1670		2980 x 1300 x 1665	
With cabinet (LxWxH mm)	2650 x 1100 x 1881		2950 x 1100 x 1964				3650 x 1300 x 2300		3642 x 1300 x 2297		3642 x 1300 x 2297		3650 x 1300 x 2300	
Open type weight (kg)	1106		1486		1558		2085		2252		2275		2580	
Open type weight (kg) (Except for antifreeze and oil)	1066,4		1447		1513		2020		2180		2210		2506	
Weight with cabinet (kg)	1366		1816		1888		2585		2882		2905		3225	
Weight with cabinet (kg) (Except for antifreeze and oil)	1326,4		1777		1843		2520		2810		2840		3151	
Tank capacity (L)	185		260				400							
MOTOR														
Frequency	50Hz													
Manufacturer and model	BAUDOUIN 4M10G110/5		BAUDOUIN 6M11G2D0/S		BAUDOUIN 6M11G4D0/S		BAUDOUIN 6M16G220/5		BAUDOUIN 6M16G4D0/S		BAUDOUIN 6M16G275/5		BAUDOUIN 6M16G350/5	
Engine power	96/129 (kWm/hp)		127/170 (kWm/hp)		147/197 (kWm/hp)		191/257 (kWm/hp)		225/302 (kWm/hp)		251/337 (kWm/hp)		305/409 (kWm/hp)	
Revolution per min.	1500r.p.m													
Total displacement	4,087lt		6,75lt				9,726lt						9,72lt	
Cylinders orientation	4 Cylinders Vertical In-line		6 Cylinders Vertical In-line											
Bore x Stroke	105 x 118mm		105 x 130mm				126 x 130mm							
Compression ratio	17.5 : 1		18:1				17:1							
Governor type	Electronical													
Aspiration system	Turbocharged													
Injection	Direct													
Cooling	Water													
Electrical system	12VDC						24VDC							
Lub-oil capacity	16lt		19lt				30lt							
Engine coolant capacity	23,6lt		20lt				35lt		42lt		35lt		44lt	
Cooling air flow	175m3/min		304,5m3/min				415m3/min						450m3/min	
Fuel	Diesel													
FUEL CONSUMPTION														
100% load	21,25lt/h		30,2lt/h		32,6lt/h		43,1lt/h		50,9lt/h		56,9lt/h		70,5lt/h	
75% load	16,01lt/h		23,1lt/h		24,6lt/h		32,4lt/h		38lt/h		42,2lt/h		52,3lt/h	
50% load	10,58lt/h		15,9lt/h		16,7lt/h		22,4lt/h		25,8lt/h		28,3lt/h		35,4lt/h	
EXHAUST SYSTEM														
Maximum exhaust temperature	700°C												720°C	
Maximum exhaust gas flow	1297,8m³/h		1419m³/h		1440m³/h		2289m³/h		2664m³/h		3036m³/h		3492m³/h	
Maximum allowed back pressure	5kPa		6kPa										11kPa	
ALTERNATOR														
Brand	Tescom / Stamford													
Poles	4 Poles													
Frequency	50/60HZ													
Winding connections	Star													
Insulation	Class H													
Enclosure	IP23													
Power factor	0,8													
Altitude	1000m													
Exciter system	Self exication													
Voltage regulator	AVR													
Steady state voltage regulation	± 1%													
Direction of rotation	Clockwise													
Cooling	Direct drive centrifugal blower fan													

(*) **TDJ110-350BT** Baudouin Motor - Tescom Alternator / **TDJ110-350BS** Baudouin Motor - Stamford Alternator

TECHNICAL SPECIFICATIONS

	TDJ400BT / TDJ400BS (*)		TDJ440BT / TDJ440BS (*)		TDJ500BT / TDJ500BS (*)		TDJ550BT / TDJ550BS (*)		TDJ660BT / TDJ660BS (*)		TDJ715BT / TDJ715BS (*)	
Standby (kVA/kW)	400	320	440	352	500	400	550	440	660	528	715	572
Prime (kVA/kW)	364	291	400	320	455	364	500	400	600	480	650	520
Open type size (LxWxH mm)	2980 x 1300 x 1725		2980 x 1300 x 1725		3255 x 1500 x 1866		3255 x 1500 x 1900		3900 x 1700 x 2130		3900 x 1700 x 2130	
With cabinet (LxWxH mm)	3642 x 1300 x 2297		3642 x 1300 x 2297		4300 x 1500 x 1866		4300 x 1500 x 1940		4901 x 1700 x 2760		4901 x 1700 x 2760	
Open type weight (kg)	2948		3228		3041		3319		4440		5328	
Open type weight (kg) (Except for antifreeze and oil)	2861		3141		2954		3217		4294		5105	
Weight with cabinet (kg)	3578		3858		3686		4226		5345		6233	
Weight with cabinet (kg) (Except for antifreeze and oil)	3491		3771		3599		4124		5199		6010	
Tank capacity (L)	400				515				940			
MOTOR												
Frequency	50Hz											
Manufacturer and model	BAUDOUIN 6M21G400/5		BAUDOUIN 6M21G440/5		BAUDOUIN 6M21G500/5		BAUDOUIN 6M21G550/5		BAUDOUIN 8M21G660/5		BAUDOUIN 6M33G715/5	
Engine power	362/486 (kWm/hp)		382/512 (kWm/hp)		430/577 (kWm/hp)		476/638 (kWm/hp)		548/735 (kWm/hp)		608/816 (kWm/hp)	
Revolution per min.	1500r.p.m											
Total displacement	12,54lt								16,72lt		19,6lt	
Cylinders orientation	6 Cylinders Vertical In-line								8 Cylinders V type		6 Cylinders Vertical In-line	
Bore x Stroke	127 x 165mm										150 x 185mm	
Compression ratio	16:1						15,2 : 1		15:1			
Governor type	Electronical											
Aspiration system	Turbocharged											
Injection	Direct											
Cooling	Water											
Electrical system	24VDC											
Lub-oil capacity	40lt								45lt		64lt	
Engine coolant capacity	47lt						62lt		101lt		159lt	
Cooling air flow	398m3/min				550m3/min		474m3/min		800m3/min		783,3m3/min	
Fuel	Diesel											
FUEL CONSUMPTION												
100% load	82,1lt/h		85,5lt/h		95,9lt/h		109,5lt/h		124,2lt/h		136,3lt/h	
75% load	60,7lt/h		63,5lt/h		69,6lt/h		75,3lt/h		95,4lt/h		100lt/h	
50% load	41lt/h		43,2lt/h		46,6lt/h		51lt/h		64,7lt/h		67,1lt/h	
EXHAUST SYSTEM												
Maximum exhaust temperature	740°C								720°C		750°C	
Maximum exhaust gas flow	3900m³/h		4140m³/h		5940m³/h		6888m³/h		7512m³/h		8442m³/h	
Maximum allowed back pressure	12kPa								7,5kPa			
ALTERNATOR												
Brand	Tescom / Stamford											
Poles	4 Poles											
Frequency	50/60HZ											
Winding connections	Star											
Insulation	Class H											
Enclosure	IP23											
Power factor	0,8											
Altitude	1000m											
Exciter system	Self exication											
Voltage regulator	AVR											
Steady state voltage regulation	± 1%											
Direction of rotation	Clockwise											
Cooling	Direct drive centrifugal blower fan											

(*) **TDJ400-715BT** Baudouin Motor - Tescom Alternator / **TDJ400-715BS** Baudouin Motor - Stamford Alternator

TECHNICAL SPECIFICATIONS

	TDJ750BT / TDJ750BS (*)		TDJ825BT / TDJ825BS (*)		TDJ900BT / T DJ900BS (*)		TDJ1000BT / T DJ1000BS (*)		TDJ1100BT / TDJ1100BS (*)		TDJ1250BT / TDJ1250BS (*)	
Standby (kVA/kW)	750	600	825	660	900	720	1000	800	1100	880	1250	1000
Prime (kVA/kW)	681	545	750	600	817	654	909	727	1000	800	1136	909
Open type size (LxWxH mm)	TBA		3900 x 1900 x 2140		4500 x 1800 x 2390						TBA	
With cabinet (LxWxH mm)			4821 x 1900 x 2786		5500 x 2115 x 2650							
Open type weight (kg)			6293		7659		7773		7848			
Open type weight (kg) (Except for antifreeze and oil)			6070		7391		7505		7580			
Weight with cabinet (kg)			7738		9079		9193		9268			
Weight with cabinet (kg) (Except for antifreeze and oil)			7515		8811		8925		9000			
Tank capacity (L)			1100		1425							
MOTOR												
Frequency	50Hz											
Manufacturer and model	BAUDOUIN 6M33G750/5		BAUDOUIN 6M33G825/5		BAUDOUIN 12M26G900/5		BAUDOUIN 12M26G1000/5		BAUDOUIN 12M26G1100/5		BAUDOUIN 12M33G1250/5	
Engine power	645/865 (kWm/hp)		700/939 (kWm/hp)		761/1021 (kWm/hp)		870/1167 (kWm/hp)		941/1262 (kWm/hp)		1051/1410 (kWm/hp)	
Revolution per min.	1500r.p.m											
Total displacement	19,6lt				31,8lt						39,2lt	
Cylinders orientation	6 Cylinders Vertical In-line				6 Cylinders V type		12 Cylinders V type					
Bore x Stroke	150 x 185mm				150 x 150mm						150 x 185mm	
Compression ratio	15:1				15,7:1						15:1	
Governor type	Electronical											
Aspiration system	Turbocharged											
Injection	Direct											
Cooling	Water											
Electrical system	24VDC											
Lub-oil capacity	64lt				114lt						160lt	
Engine coolant capacity	159lt				154lt						303lt	
Cooling air flow	783,3m3/min				1430m3/min						2100m3/min	
Fuel	Diesel											
FUEL CONSUMPTION												
100% load	151,1lt/h		159,5lt/h		173,7lt/h		195,5lt/h		207,1lt/h		236,2lt/h	
75% load	111,2lt/h		114,8lt/h		133,1lt/h		146,5lt/h		155,3lt/h		175lt/h	
50% load	75,5lt/ h		77,4lt/h		90,8lt/h		100,8lt/h		106,6lt/h		119,5lt/h	
EXHAUST SYSTEM												
Maximum exhaust temperature	750°C		730°C		750°C							
Maximum exhaust gas flow	11202m^3/h		9786 m^3/h		10506 m^3/h		11670m^3/h		14490m^3/h		13506m^3/h	
Maximum allowed back pressure	7,5kPa											
ALTERNATOR												
Brand	Tescom / Stamford											
Poles	4 Poles											
Frequency	50/60HZ											
Winding connections	Star											
Insulation	Class H											
Enclosure	IP23											
Power factor	0,8											
Altitude	1000m											
Exciter system	Self exication											
Voltage regulator	AVR											
Steady state voltage regulation	± 1%											
Direction of rotation	Clockwise											
Cooling	Direct drive centrifugal blower fan											

(*) **TDJ750-1250BT** Baudouin Motor - Tescom Alternator / **TDJ750-1250BS** Baudouin Motor - Stamford Alternator

TECHNICAL SPECIFICATIONS

	TDJ110VT / TDJ110VS (*)		TDJ145VT / TDJ145VS (*)		TDJ167VT / TDJ167VS (*)		TDJ200VT / TDJ200VS (*)		TDJ225VT / TDJ225VS (*)		TDJ330VT (842) / TDJ330VS (842) (*)	
Standby (kVA/kW)	110	88	145	116	167	134	200	160	225	180	330	264
Prime (kVA/kW)	100	80	132	105	152	121	182	145	205	164	300	240
Open type size (LxWxH mm)	2120 x 1100 x 1620		2470 x 1100 x 1654		2800 x 1150 x 1630		2980 x 1300 x 1760					
With cabinet (LxWxH mm)	2650 x 1100 x 1890		2950 x 1100 x 1970		3451 x 1150 x 2170		3645 x 1300 x 2300					
Open type weight (kg)	1198		1347		1674		1861		2007		2789	
Open type weight (kg) (Except for antifreeze and oil)	1165,3		1321		1603,2		1605,5		1935,8		2738	
Weight with cabinet (kg)	1458		1677		2104		2351		2497		3434	
Weight with cabinet (kg) (Except for antifreeze and oil)	1425,3		1651		2060,2		2275,5		2425,8		3383	
Tank capacity (L)	185		260		335		400				515	
MOTOR												
Frequency	50Hz											
Manufacturer and model	VOLVO PENTA TAD531GE		VOLVO PENTA TAD532GE		VOLVO PENTA TAD731GE		VOLVO PENTA TAD732GE		VOLVO PENTA TAD733GE		VOLVO PENTA TAD842GE	
Engine power	98/133 (kWm/hp)		125/169 (kWm/hp)		148 (kWm/hp)		179/243 (kWm/hp)		195/265 (kWm/hp)		287/390 (kWm/hp)	
Revolution per min.	1500r.p.m											
Total displacement	4,76				7,15						7,7lt	
Cylinders orientation	4				6							
Bore x Stroke	108 x 130 mm										110 x 135 mm	
Compression ratio	18:1								18,1:1		17,5:1	
Governor type	Mechanical		Electronical		Mechanical		Electronical					
Aspiration system	Turbo CAC											
Injection	Direct											
Cooling	Water											
Electrical system	12VDC						24VDC					
Lub-oil capacity	13lt				20lt		34lt				27lt	
Engine coolant capacity	19,7lt		13lt		23,8lt		41,8lt		37,2lt		28lt	
Cooling air flow	90 m3/min		174 m3/min		150 m3/min		234 m3/min				228 m3/min	
Fuel	Diesel											
FUEL CONSUMPTION												
100% load	22,4lt/h		31,4lt/h		33,9lt/h		39,9lt/h		44,72lt/h		62,9lt/h	
75% load	16,7lt/h		23lt/h		25,5lt/h		29,9lt/h		33,2lt/h		49,2lt/h	
50% load	11,6lt/h		16lt/h		17,7lt/h		20,5lt/h		22,5lt/h		35,3lt/h	
EXHAUST SYSTEM												
Maximum exhaust temperature	557°C		532°C		540°C		542°C		530°C		495°C	
Maximum exhaust gas flow	1104m3/h		1392m3/h		1812m3/h		2106m3/h		2232m3/h		2820m3/h	
Maximum allowed back pressure	5kPa										10kPa	
ALTERNATOR												
Brand	Tescom / Stamford											
Poles	4 Poles											
Frequency	50/60HZ											
Winding connections	Star											
Insulation	Class H											
Enclosure	IP23											
Power factor	0,8											
Altitude	1000m											
Exciter system	Self exication											
Voltage regulator	AVR											
Steady state voltage regulation	± 1											
Direction of rotation	Clockwise											
Cooling	Direct drive centrifugal blower fan											

(*) **TDJ110-330VT** Volvo Penta Motor - Tescom Alternator / **TDJ110-330VS** Volvo Penta Motor - Stamford Alternator

TECHNICAL SPECIFICATIONS

	TDJ330VT / TDJ330VS (*)		TDJ350VT / TDJ350VS (*)		TDJ385VT / TDJ385VS (*)		TDJ415VT / TDJ415VS (*)		TDJ450VT / TDJ450VS (*)	
Standby (kVA/kW)	330	264	350	280	385	308	415	332	450	360
Prime (kVA/kW)	300	240	318	254	350	280	377	302	409	327
Open type size (LxWxH mm)	3200 x 1500 x 1900									
With cabinet (LxWxH mm)	4301 x 1500 x 2510									
Open type weight (kg)	2789		2884		2890		2894		3094	
Open type weight (kg) (Except for antifreeze and oil)	2709		2804		2810		2814		3014	
Weight with cabinet (kg)	3434		3529		3535		3539		3739	
Weight with cabinet (kg) (Except for antifreeze and oil)	3354		3449		3455		3459		3659	
Tank capacity (L)	515									
MOTOR										
Frequency	50Hz									
Manufacturer and model	VOLVO PENTA TAD1341GE		VOLVO PENTA TAD1341GE		VOLVO PENTA TAD1342GE		VOLVO PENTA TAD1343GE		VOLVO PENTA TAD1344GE	
Engine power	298/405 (kWm/hp)				333/453 (kWm/hp)		356/484 (kWm/hp)		389 (kWm/hp)	
Revolution per min.	1500r.p.m									
Total displacement	12,78									
Cylinders orientation	6									
Bore x Stroke	131 x 158 mm									
Compression ratio	18,1:1									
Governor type	Electronical									
Aspiration system	Turbo CAC									
Injection	Direct									
Cooling	Water									
Electrical system	24 VDC									
Lub-oil capacity	36lt									
Engine coolant capacity	44lt									
Cooling air flow	330 m3/min				402 m3/min		27 m3/min		390 m3/min	
Fuel	Diesel									
FUEL CONSUMPTION										
100% load	61,7lt/h				68lt/h		73,4lt/h		80,78lt/h	
75% load	47,3lt/h				51,6lt/h		55lt/h		61,53lt/h	
50% load	33,7lt/h				35,9lt/h		38,2lt/h		41,6lt/h	
EXHAUST SYSTEM										
Maximum exhaust temperature	414°C				402°C		420°C		465°C	
Maximum exhaust gas flow	3120m3/h				3400m3/h		3600m3/h		4050m3/h	
Maximum allowed back pressure	10kPa									
ALTERNATOR										
Brand	Tescom / Stamford									
Poles	4 Poles									
Frequency	50/60HZ									
Winding connections	Star									
Insulation	Class H									
Enclosure	IP23									
Power factor	0,8									
Altitude	1000m									
Exciter system	Self exication									
Voltage regulator	AVR									
Steady state voltage regulation	± 1%									
Direction of rotation	Clockwise									
Cooling	Direct drive centrifugal blower fan									

(*) **TDJ330-450VT** Volvo Penta Motor - Tescom Alternator / **TDJ330-450VS** Volvo Penta Motor - Stamford Alternator

TECHNICAL SPECIFICATIONS

	TDJ500VT / TDJ500VS (*)		TDJ550VT / TDJ550VS (*)		TDJ650VT / TDJ650VS (*)		TDJ715VT / TDJ715VS (*)		TDJ770VT / TDJ770VS (*)	
Standby (kVA/kW)	500	400	550	440	650	520	715	572	770	616
Prime (kVA/kW)	455	364	500	400	591	473	650	520	700	560
Open type size (LxWxH mm)	3255 x 1500 x 1910		3700 x 1700 x 1910		3700 x 1700 x 2210		3700 x 1700 x 2225		3785 x 1700 x 2225	
With cabinet (LxWxH mm)	4301 x 1500 x 2510		4900 x 1700 x 2770				4900 x 1700 x 2770			
Open type weight (kg)	3681		3609		3822		4352		4520	
Open type weight (kg) (Except for antifreeze and oil)	3601		3501		3714		4204		4372	
Weight with cabinet (kg)	4536		4516		4729		5259		5427	
Weight with cabinet (kg) (Except for antifreeze and oil)	4456		4408		4621		5111		5279	
Tank capacity (L)	515		900				897			
MOTOR										
Frequency	50Hz									
Manufacturer and model	VOLVO PENTA TAD1345GE		VOLVO PENTA TAD1641GE		VOLVO PENTA TAD1642GE		VOLVO PENTA TAD1644GE		VOLVO PENTA TAD1645GE	
Engine power	431/586 (kWm/hp)		473/643 (kWm/hp)		536/729 (kWm/hp)		609/828 (kWm/hp)		654/890 (kWm/hp)	
Revolution per min.	1500r.p.m									
Total displacement	12,78		16,12							
Cylinders orientation	6									
Bore x Stroke	131 x 158 mm		144 x 165 mm							
Compression ratio	18,1:1		16,5:1				16,8:1			
Governor type	Electronical									
Aspiration system	Turbo CAC									
Injection	Direct									
Cooling	Water									
Electrical system	24VDC									
Lub-oil capacity	36lt		48lt							
Engine coolant capacity	44lt		60lt				100lt			
Cooling air flow	402 m3/min		781 m3/min		774 m3/min		684 m3/min		41,2 m3/min	
Fuel	Diesel									
FUEL CONSUMPTION										
100% load	62,9lt/h		100,7lt/h		114,7t/h		126lt/h		139,1lt/h	
75% load	49,2lt/h		75,5lt/h		84,lt/h		94lt/h		108,3lt/h	
50% load	35,3lt/h		50,4lt/h		56,5t/h		63lt/h		77,6lt/h	
EXHAUST SYSTEM										
Maximum exhaust temperature	570°C		445°C		482°C		480°C		501°C	
Maximum exhaust gas flow	3498m3/h		5520m3/h		5880m3/h		6000m3/h		6360m3/h	
Maximum allowed back pressure	10kPa									
ALTERNATOR										
Brand	Tescom / Stamford									
Poles	4 Poles									
Frequency	50/60HZ									
Winding connections	Star									
Insulation	Class H									
Enclosure	IP23									
Power factor	0,8									
Altitude	1000m									
Exciter system	Self exication									
Voltage regulator	AVR									
Steady state voltage regulation	± 1%									
Direction of rotation	Clockwise									
Cooling	Direct drive centrifugal blower fan									

(*) **TDJ500-770VT** Volvo Penta Motor - Tescom Alternator / **TDJ500-770VS** Volvo Penta Motor - Stamford Alternator

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