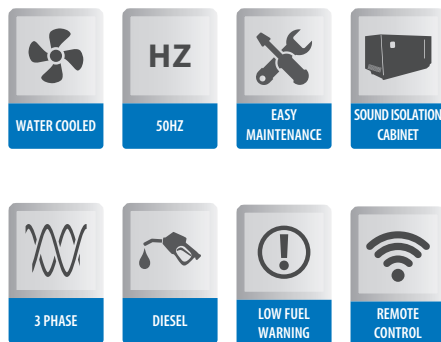


TESCOM DIESEL GENERATOR SET



Standby power, is the power to work for a limited time under variable load. For Standby operation load value defined in the document at variable load, it defines annual usage at an average load value of 70%. Overloading is not allowed. Standby power is 10% more than prime power. It's used as backup power in areas with grid energy infrastructure.

Prime operation; is the continuous working power under variable load. It is the use of unlimited hours during the year with an average load factor of 70% of the power defined in the document during the 24-hour working period. Every 12 hours of operation can be overloaded for a maximum of 1 hour in variable periods.

Continuous operation; is the continuous 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.

QUALITY STANDARDS

Generators are produced in accordance with the following standards;

VDE 0530, BSE 4999 BS5000, IEC 34, EN12601; EN60204-1; TS ISO 8528-1 ... -13; EN12100-1; EN12100-2; EN61000-6-4; EN61000-6-2; EN61000-4-11; EN61000-4-6; EN61000-4-5; EN61000-4-2; EN55011; EN55016-2-1; EN55016-2-3; EN61000-3-2; EN61000-3-3; EN55014-1; EN61000-6-2; EN61000-4-3; EN61000-4-4; EN61000-4-8; EN61000-4-11; TS EN ISO 3744; TS EN ISO 3746; TS EN 60034-1; TS EN60034-22; TS EN ISO 3046; BS 5514; NEMA MG 21; IEC 60034, BS 4999/5000, TS EN 60947-1..4

ISO 9001-2015, ISO 14001-2015, ISO 45001-2018 and ISO 1002-2006 management systems certificates were obtained accredited from Kiwa.

Generators TS ISO 8528-4, TS ISO 8528-5, TS EN 13501-1+A1:2013 Insulation Sponge It is certified for its behavior against fire, TS EN ISO 9227 1500 Hours Neutral Salt Test and also have CE Declaration.

ENGINE FEATURES

- FPT - IVECO series 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 (available for automatic models)
- Diesel generator maintenance and operation manual and electrical diagrams

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



TECHNICAL SPECIFICATIONS

TDJS33			TDJS50		TDJS55		TDJS66		TDJS72		TDJS88		TDJS110	
Standby (kVA/kW)	33	26	50	40	55	44	66	53	72	58	88	70	110	88
Prime (kVA/kW)	30	24	45	36	50	40	60	48	65	52	80	64	100	80
Dimension with cabinet (WxDxH mm)	2300x1000x1545		2300x1000x1545		2300x1000x1545		2600x1000x1545		2600x1000x1535		2600x1000x1535		3100x1100x1845	
Weight with cabinet (kg)	850		970		1015		1080		1240		1240		1460	
MOTOR (FPT /IVECO)														
MODEL	80313AM1P.S550		NEF45AM1A.S500		NEF45AM2.S500		NEF45SM1A.S500		NEF45SM3.S500		NEF45SM3.S500		NEF45TM2A.S500	
Standby/Prime(kw)	26	24	40	36	44	40	53	48	58	52	70	64	88	80
Engine rpm	1500													
Time	4													
Cylinder (total displacement) (lt)	2,9		4,5											
Number of cylinders	3, in-line		4, in-line											
Bore and stroke (mm)	115x104		104x132											
Compression ratio (x:1)	17,0		17,5											
Governor type	Mechanical													
Air intake system	Natural				Turbocharger								Turbocharger - Aftercooler	
Injection type	Direct													
Cooling system	Water													
Fuel tank capacity (lt)	100						140						275	
Fuel consumption 100%/75%/50% (lt/hour)	7,05/5,64/3,76		11,3/9,2/6,4		13,7/10,2/7		13,7/10,2/7		19,4/15,4/9,6		19,4/15,4/9,6		22/16,2/11	
Oil sump capacity (lt)	8,8		12,8											
Cooling water capacity (lt)	14		18,5											
ALTERNATOR (LEROY SOMER)														
Type	TAL042C		TAL042F		TAL042G		TAL042H		TAL044A		TAL044B		TAL044D	
Frequency (Hz)	50													
Power (kVA)	33		50		55		66		72		88		110	
Design	4 poles, brushless													
Connection type	Star													
Voltage (V)	400													
Phase	3													
Automatic voltage regulator	R250													
Voltage regulation	± 1%													
Insulation class	H Class													
Protection class	IP23													
Power factor	0.8													
Weight (kg)	132				240				383				406	

TECHNICAL SPECIFICATIONS

TDJS132			TDJS187		TDJS220		TDJS275	
Standby (kVA/kW)	132	105	187	149	220	176	275	220
Prime (kVA/kW)	120	96	170	136	200	160	250	200
Dimension with cabinet (WxDxH mm)	3100x1100x1850		3220x1100x1845		3220x1100x1845		3600x1200x2480	
Weight with cabinet (kg)	1620		1800		1850		2490	
MOTOR (FPT /IVECO)								
MODEL	NEF45TM3.S500		NEF67TM4.S500		NEF67TM7.S500		NEF67TE8P.S550	
Standby/Prime(kw)	105	96	149	136	176	160	220	200
Engine rpm	1500							
Time	4							
Cylinder (total displacement) (lt)	4,5		6,73					
Number of cylinders	4, in-line		6, in-line					
Bore and stroke (mm)	104x132							
Compression ratio (x:1)	17,5		17,0		17,5		17,0	
Governor type	Mechanical							
Air intake system	Turbocharger - Aftercooler							
Injection type	Direct							
Cooling system	Water							
Fuel tank capacity (lt)	275						420	
Fuel consumption 100%/75%/50% (lt/hour)	22/16,2/11		41,2/33,3/14,7					
Oil sump capacity (lt)	12,8		17,2					
Cooling water capacity (lt)	18,5		30,5					
ALTERNATOR (LEROY SOMER)								
Type	TAL044E		TAL044L		TAL044M		TAL046D	
Frequency (Hz)	50							
Power (kVA)	132		187		220		275	
Design	4 poles, brushless							
Connection type	Star							
Voltage (V)	400							
Phase	3							
Automatic voltage regulator	R250							
Voltage regulation	± 1%							
Insulation class	H Class							
Protection class	IP23							
Power factor	0.8							
Weight (kg)	406		530					

TECHNICAL SPECIFICATIONS

TDJS330			TDJS440		TDJS495		TDJS550		TDJS660	
Standby (kVA/kW)	330	264	440	352	495	396	550	440	660	528
Prime (kVA/kW)	300	244	400	320	450	360	500	400	600	480
Dimension with cabinet (WxDxH mm)	3750x1400x2646									
Weight with cabinet (kg)	3530				3850				4300	
MOTOR (FPT /IVECO)										
MODEL	CR87TE4.S550*		CR13TE3A.S551		CR13TE6W.S550		CR13TE7W.S550		CR16TE1W.S550	
Standby/Prime(kw)	264	244	352	320	396	360	440	400	528	480
Engine rpm	1500									
Time	4									
Cylinder (total displacement) (lt)	8,7		12,88		12,9				15,9	
Number of cylinders	6, in-line									
Bore and stroke (mm)	117x135		135X150				141x170			
Compression ratio (x:1)	15,9		16,5				15,9			
Governor tipi	Electronic									
Air intake system	Turbocharger-Aftercooler									
Injection type	Direct									
Cooling system	Water									
Fuel tank capacity (lt)	670		870							
Fuel consumption 100%/75%/50% (lt/hour)	67/53/37		86/70/43		101/80/52		101/80/52		117/93/59	
Oil sump capacity (lt)	28		35				38			
Cooling water capacity (lt)	58		68		38,1				52,5	
ALTERNATOR (LEROY SOMER)										
Type	TAL046F		TAL0473A		TAL0473B		TAL0473C		TAL0473E	
Frequency (Hz)	50									
Power (kVA)	330		440		495		550		660	
Design	4 poles, brushless									
Connection type	Star									
Voltage (V)	400									
Phase	3									
Automatic voltage regulator	R250									
Voltage regulation	± 1%									
Insulation class	H Class									
Protection class	IP23									
Power factor	0.8									
Weight (kg)	799		1033		1202,5				1365	

MODULAR GENSET CONTROLLER



D 500 LITE

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
- 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

FUNCTIONALITIES

- AMF unit (uninterrupted transition)
- ATS unit (uninterrupted transition)
- Remote Start Control
- Manual Start Control
- Motor Controller
- Input-output boost
- Current-voltage harmonic analysis
- Long-term recording to flash memory

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

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)

TOPOLOGIES

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

MODULAR GENSET CONTROLLER

OTHER GENERATOR CONTROLLERS

OPTIONAL



Datakom SMART 200



Datakom D500



Datakom D500-GSM



DEEPSEA 6120



DEEPSEA 7320



ComAp AMF25

	Datakom D200	Datakom D500	Datakom D500-GSM	DEEPSEA 6120	DEEPSEA 7320	ComAp AMF25
AUTOMATIC NETWORK MONITORING	✓	✓	✓	✓	✓	✓
MANUEL OPERATION	✓	✓	✓	✓	✓	✓
REMOTE START	✓	✓	✓	✓	✓	✓
REMOTE MONITORING WITH SIM CARD	OPTIONAL	OPTIONAL	✓	X	OPTIONAL	OPTIONAL
EXSTRA 1 PIECE OPTION (HORN, OIL-FUEL, HEATER ETC.)	X	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
LIGHT WARNING AND MIMIC DIAGRAM	✓	✓	✓	✓	✓	✓
BATTERY CHARGER	✓	✓	✓	✓	✓	✓
RS-485 COMMUNICATION	OPTIONAL	✓	✓	X	✓	OPTIONAL
ETHERNET (TCP-IP) COMMUNICATION	X	✓	✓	X	OPTIONAL	OPTIONAL