



TECHNICAL CHARACTERISTICS

Model	T23		T28	
	mm	inch	mm	inch
A	437	17.2	487	19.2
B	321	12.6	368	14.5
C	368	14.5	368	14.5
D	194	7.7	194	7.7
E	321	12.6	368	14.5
F	200	7.9	200	7.9

Dimensions in parentheses are those with metric conversion.

DESCRIPTION (UNITS)	T23	T28
Block	320	427
320 (320)	320	320
320 (320)	320	320
Block	320	427
320 (320)	320	320
Cylinder Capacity	320	427
320 (320)	320	320
Maximum Output (kW)	320	427
320 (320)	320	320
Maximum Output (HP)	320	427
320 (320)	320	320
Maximum Output (kW) with 30% load	320	427
320 (320)	320	320
Maximum Fuel Consumption (kg/h)	320	427
320 (320)	320	320
Maximum Fuel Consumption (lit/h)	320	427
320 (320)	320	320
Maximum Torque (Nm)	320	427
320 (320)	320	320
Maximum Torque (kg-m)	320	427
320 (320)	320	320
Maximum Torque (HP-hr)	320	427
320 (320)	320	320
Weight (kg)	320	427
320 (320)	320	320

DESCRIPTION	T23	T28
Maximum Output (kW)	320 (320)	427 (320)
Maximum Output (HP)	320 (320)	427 (320)
Maximum Output (kW) with 30% load	320 (320)	427 (320)
Maximum Fuel Consumption (kg/h)	320 (320)	427 (320)
Maximum Fuel Consumption (lit/h)	320 (320)	427 (320)
Maximum Torque (Nm)	320	427
Maximum Torque (kg-m)	320	427

*Data subject to manufacturing tolerances and specifications.

STANDARD EQUIPMENT

- Special Cast-Iron Valve Keys.
- Special mounting base fitted for automatic start.
- Full Flow Anti-Frost Tap.
- Cast-iron Exhaust Manifold.
- Locking Oil Fill.
- Special Base for easier speed setting in field.
- Auto-Drain Fuel Control.
- Generator Mounting.

ACCESSORY

- Air Filter: Standard heavy duty.
- Hydraulic Drive: Transmission and shaft.
- 12/24VDC Voltage.
- 12 or 24 Amp/100 Hour Generator.
- Special Base for easy starting.
- Fan Drive.
- Full Flow Fuel Filter Pump.
- Hydraulic Pump Adapter - gear wheel type.
- Engine Protection: Batteries and Solenoid.
- Locking oil tank.
- Special Diaphragm Control.
- Exhaust Control.
- Design.
- Special - mounted base.
- Full Oil.
- Additional accessories available - consult sales office.

PRODUCT WARRANTY

- Standard 3-year warranty.
- Generator 1-year.
- Motor 1-year.



Quality Assurance
 Lister-Petter engines are manufactured under ISO 9001 certification. This ensures that every engine is built to the highest standards of quality and reliability. Our strict quality control process covers every stage of production, from the selection of raw materials to the final assembly and testing of the engine. This commitment to excellence ensures that our customers receive engines that are not only powerful and efficient, but also long-lasting and dependable.



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The right diesel for the job.
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 May 1995
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TR1 TR2 TR3

Air-cooled
direct injection
diesel engines.

Specifications & Technical Data

T SERIES



The right choice
for the job

CONSTRUCTION

- Cast iron cylinder for durability.
- Large bearing surfaces for low bearing stresses and long life.

ROCKERS

- Cast iron rocker housing of high precision.

COOLING

- According to volume of a highly efficient liquid cooling pump with a variable speed of circulation to 50% (TR1).
- Cooling by means of an air-cooled diesel engine fan.

LUBRICATION

- Full capacity sump with compensation of crank volume for all operating conditions.
- Full flow rate on top of the full flow rate internal oil pump.

FUEL & COMPRESSION SYSTEM

- High precision cylinder with electronic starting and low fuel consumption.
- Electronic fuel injection pump per engine maximum capacity and low maintenance.

STARTING

- Full electronic control of the gas and
- Starting facilities are available for international diesel engine series.
- Maximum 90 seconds starting.

OVERHAUL

- Additional greasing is provided for other valves at constant speeds depending on job.
- Minimum oil greasing is available for short total time.



FEATURES

- Full electronic control system for the system.
- Starting devices are available for the system.
- Electronic pump adjustment available.

ADVANTAGES

- Excellent service engine with the smallest maintenance.

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		POWER (kW/HP) - 1500 RPM					
		Continuous Power			Maximum Power		
Engine Speed (min)		kW/HP/COMBUSTION					
		TR1	TR2	TR3	TR1	TR2	TR3
1000	1400	30.0	37.5	45.0	30.0	37.5	45.0
	1400	37.5	45.0	52.5	37.5	45.0	52.5
1200	1400	37.5	45.0	52.5	37.5	45.0	52.5
	1400	45.0	52.5	60.0	45.0	52.5	60.0
1400	1400	45.0	52.5	60.0	45.0	52.5	60.0
	1400	52.5	60.0	67.5	52.5	60.0	67.5
1600	1400	52.5	60.0	67.5	52.5	60.0	67.5
	1400	60.0	67.5	75.0	60.0	67.5	75.0

		TORQUE (Nm/DAIN)			
		Maximum Power			
Engine Speed (min)		TR1/COMBUSTION			
		TR1	TR2	TR3	TR3
1000	1400	10.0	12.0	14.0	14.0
	1400	12.0	14.0	16.0	16.0
1200	1400	12.0	14.0	16.0	16.0
	1400	14.0	16.0	18.0	18.0
1400	1400	14.0	16.0	18.0	18.0
	1400	16.0	18.0	20.0	20.0
1600	1400	16.0	18.0	20.0	20.0
	1400	18.0	20.0	22.0	22.0



	Electrical Characteristics					
	1000		1500		2000	
	Watt	VA	Watt	VA	Watt	VA
1	400	500	600	750	900	1125
2	475	594	712	890	107	1338
3	550	688	829	1037	1245	1557
4	625	782	946	1194	1412	1766
5	700	876	1063	1351	1579	1975
6	775	970	1180	1508	1746	2184
7	850	1064	1297	1665	1913	2393
8	925	1158	1414	1822	2080	2602
9	1000	1252	1531	1979	2247	2811
10	1075	1346	1648	2136	2414	3020

Electrical characteristics are given for a power factor of 0.8. For a power factor of 1.0, the maximum output is 10% less.

Dimensions, mm	1000	1500	2000
Weight	100	120	140
Height	240	240	240
Width	200	200	200
Length	240	240	240
Output Voltage	230	230	230
Frequency	50	50	50
Speed (rpm)	1500	1500	1500
Speed (rpm) (no load)	1500	1500	1500
Full Load Current (A)	1.7	1.7	1.7
Full Load Current (A) (no load)	1.7	1.7	1.7
Speed Regulation (%)	0.5	0.5	0.5
Efficiency (%)	85	85	85
Power Factor	0.8	0.8	0.8
Speed (rpm)	1500	1500	1500
Speed (rpm) (no load)	1500	1500	1500
Speed (rpm)	1500	1500	1500
Speed (rpm) (no load)	1500	1500	1500
Speed (rpm)	1500	1500	1500
Speed (rpm) (no load)	1500	1500	1500

Electrical Data	1000	1500	2000
Output Voltage	230	230	230
Frequency	50	50	50
Speed (rpm)	1500	1500	1500
Speed (rpm) (no load)	1500	1500	1500
Speed (rpm)	1500	1500	1500
Speed (rpm) (no load)	1500	1500	1500
Speed (rpm)	1500	1500	1500
Speed (rpm) (no load)	1500	1500	1500
Speed (rpm)	1500	1500	1500
Speed (rpm) (no load)	1500	1500	1500

Features/Advantages

- Compact housing with built-in frame
- Efficient and lightweight
- Fuel filter with Water Trap
- Efficient Exhaust Muffler
- Maintenance-free
- Overvoltage protection
- Overcurrent alarm
- Auto Voltage Regulation
- Generator Meters

ACCESSORIES

- AC Output (Standard and Remote)
- Remote Start/Stop/Generator Break
- Voltage
- Frequency
- 24V/12V/6V Regulator
- AC Output/AC Meter
- 12V/6V/24V Battery Charger
- Fuel Tank, Fuel Gauge
- Exhaust/Pipe/Exhaust - generator set
- Voltage
- Engine Protection/Engine over-temperature
- Generator/AC/DC Converter
- Exhaust Muffler
- Output
- Fuel Filter - mounted in tank
- Fuel
- Starting Motor
- Additional accessories available - Contact your dealer

PRODUCT SUPPORT

- Replacement generator
- Spare parts
- Working manual
- Maintenance manual



ISO 9001 certification logo and other quality assurance symbols.



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The right piece for the job

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T81 T82 T83

Air-cooled
direct injection
diesel engines.

Specifications & Technical Data

T SERIES



The right size
for the job

LONG RUNTIME

- Fuel injection for stability.
- Long bearing life due to low bearing loads and weights.

LOW NOISE

- Low noise levels, adequate spaced out.

LOW VIBRATION

- 400 mm crank stroke, offset crankshaft for
- Designed for performance, low noise and low vibration.
- 400 mm crank stroke, offset crank shaft, balanced timing.

LOW OIL CONSUMPTION

- Oil injection pump has built-in pressure control
- Oil injection pump has built-in pressure control
- Oil injection pump has built-in pressure control
- Oil injection pump has built-in pressure control

AIR & FUEL SYSTEMS

- Fuel injection pump has built-in pressure control
- Fuel injection pump has built-in pressure control
- Fuel injection pump has built-in pressure control
- Fuel injection pump has built-in pressure control

STARTING

- Starting motor has built-in pressure control
- Starting motor has built-in pressure control
- Starting motor has built-in pressure control
- Starting motor has built-in pressure control

ACCESSORIES

- Electrical generator has built-in pressure control
- Electrical generator has built-in pressure control
- Electrical generator has built-in pressure control



ENGINE

- Fuel injection for stability.
- Long bearing life due to low bearing loads and weights.

LOW NOISE

- Low noise levels, adequate spaced out.

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		Nominal Output - kW (hp)					
Engine Speed rpm	Type	Cylindrical Power			Inclined Power		
		T81	T82	T83	T81	T82	T83
1500	800	12	100	124	8.0	112	137
	800	8.0	100	124	8.0	100	124
1800	800	15	110	135	8.0	110	135
	800	8.0	110	135	8.0	110	135
2100	800	18	120	145	8.0	120	145
	800	8.0	120	145	8.0	120	145
2400	800	21	130	155	8.0	130	155
	800	8.0	130	155	8.0	130	155

		Nominal Output - kW (hp)		
Engine Speed rpm	Type	Cylindrical Power		
		T81	T82	T83
1500	800	15	110	135
	800	15	110	135
1800	800	18	120	145
	800	18	120	145
2100	800	21	130	155
	800	21	130	155
2400	800	24	140	165
	800	24	140	165

