

MODEL: TD125



Shown with optional equipment.

Ratings Range — 60 Hertz Operation

Standby: kW 115-135

kVA 144-156

Prime: kW 100-125

kVA 125-156

FEATURES

- Single source responsibility for the generator set and accessories.
- Prototype and production tested to insure one step load acceptance per NFPA 110.
- Two year limited warranty on generator sets and accessories. Extended warranties also available.
- Unit conforms to CSA, NEMA, EGSA, ANSI and other standards.
- Heavy duty 4 cycle industrial engine for reliability and fuel efficiency.
- Brushless rotating field generator with class H insulation.
- Heavy duty steel base with integral vibration isolators.
- EPA Tier 3 Certified for Stationary Emergency Standby use only.

GEN SET RATINGS

Genset Model Number	Alternator	Voltage L-N / L-L	Phase	Hertz	130° Rise Standby Rating		105° Rise Prime Rating	
					kW / kVA	Amps	kW / kVA	Amps
TD125	363CSL1607	277/480	3	60	135/169	203	125/156	188
		139/240	3	60	135/169	406	125/156	376
		254/440	3	60	130/163	213	115/144	188
		127/220	3	60	130/163	443	115/144	377
		240/416	3	60	125/156	216	110/138	191
		120/208	3	60	125/156	433	110/138	381
		120/240	3	60	125/156	376	110/138	330
		219/380	3	60	115/144	218	100/125	190
		120/240	1	60	97/97	233	90/90	216

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor.

STANDBY RATINGS: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271.

PRIME POWER RATINGS: Prime power ratings apply to installations where utility power in unavailable or unreliable. At varying load the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS5514, AS2789, and DIN 6271. For limited running time and base load ratings consult the factory. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whosever.

GENERAL GUIDELINES FOR DERATION: Altitude: Derate 0.5% per 100m (328 ft.) elevation above 1000m (3279 ft.)Temperature: Derate 1.0% per 10°C (18°F) temperature above 40°C (104°F).



Application and Engineering Data

	Application and E	ingineering bata			
	chnical Data	Lubrication System			
Manufacturer Model	Perkins 1106D-E66TAG2	Lubricating oil capacity total	4.4 gal (16.5 L)		
Number of cylinders	6	system Maximum sump capacity	4.1 gal (15.5 L)		
Cylinder arrangement Cycle	Vertical in-line Four stroke	Minimum sump capacity	3.3 gal (12.5 L)		
Induction system	Turbocharged, air to air charge cooled	Maximum engine operating angles (front up, front down,	25°		
Compression ratio Bore	16.3:1 4.13 in. (105 mm)	right side or left side)			
Stroke	5.0 in. (127 mm)				
Cubic capacity	402.8 cu in. (6.6 L)	Lubricating Oil Pressure			
Direction of rotation	Clockwise	Oil Temperature (continuous 257 °F (125 °C) operation)			
Firing order	1,5,3,6,2,4	Oil Temperature (maximum			
Governor type Gross engine power Electropak net engine power	ECM, Isochronous 0.25% 217 hp (162 kWb) 206 hp (154 kWm)	intermittent operation)			
Brake mean effective	237 psi (1633 kPa)	Type	ical System 12 volt negative earth		
pressure	, ,	Alternator type	Denso A127i		
Engine coolant flow (against 5 psi (35 kPa) restriction)	45 gal/min (170 L/min)	Alternator Voltage	12V		
5 psi (55 kra) restriction)		Alternator Output	100A		
Cooling fan air flow (29 psi		Starter motor type Starter motor voltage	Denso P95 12V		
(200 kPa) external restriction)		Starter motor power	4.0 hp (3.0 kW)		
Combustion air flow (at	445 cfm (12.6 m³/min)	Minimum cranking speed	60 rev/min		
rated speed) Exhaust gas flow (max)	1049 cfm (29.7 m³/min)				
Exhaust gas mass flow	1049 Citi (23.7 111 /111111)	Induction System			
(max)	242 (27 4427 22)	Maximum air intake restriction			
Exhaust gas temperature in manifold (max)	819 °F (437 °C)	Clean filter Dirty filter	.73 psi (5 kPa) 1.2 psi (8 kPa)		
Boost pressure ratio		Air filter type	Paper element		
Overall thermal efficiency	37.4%	<i>.</i> .			
(net)	Duct allowance with 50% glycol				
Coolir	ng System	1800 rev/min	ce with 50% glycol		
Coolant	5.5 1 (04.1)	127 °F (53 °C)			
Total System Capacity With radiator	5.5 gal (21 L)	17.4 psi (120 kPa)			
Without radiator	1.8 gal (7.0 L)	6,427 cfm (182 m³/min)			
Coolant Pump Drive	Gear	Fue	el System		
Coolant pump drive ratio Maximum top tank	2:1 233° F (112° C)	Type of injection	Direct		
temperature	200 1 (112 0)	Fuel injection pump	Common rail		
Temperature rise across		Fuel atomizer	Unit injector/ multi-hole		
engine (rating dependent)	43.9-44.6° F (6.6-7.0 °C)	Fuel	Lift Pump		
Thermostat operation range	185-203° F (85-95 °C)	Max flow through customer	0.4 gal/min (1.5 L/min)		
Recommended coolant:	50% ethylene glycol 50% water	filter Maximum suction head	30 kPa		
		Fuel Consumption			
		110% Load			
Fyhau	st System	100% Load	11.5 gal/hr (43.5 L/hr)		
Maximum back pressure	2.1 psi (12 kPa)	75% Load	8.8 gal/hr (33.3 L/hr)		
Exhaust outlet size	2.5 in (64 mm)	50% Load	6.6 gal/hr (24.9 L/hr)		

Generator Controller Options



- Dashboard Style LCD Panel
- NFPA 110
- SAE J1939 ECU Communications
- Load Share Synch Features
- Metering, Data Trending, Alarms
- Engine Status Indicators
- Fuel Consumption
- CanBus, ModBus
- Ethernet Communications
- Remote Contacts Form C, RS 232/485
- Internet Bridge Module
- Internet Connection & Web Browser
- Remote Access & Control
- InteliMonitor Network Management
- SNMP, PC SCADA
- Site Overview & Statistic Settling
- Automatic Downloads, Report Writer
- Receive Emails or IM Text
- CAT 5e, RS232/485, RJ 45
- Ethernet or Dial Up Connection
- Fleet Scalability

Alternator Specifications

Manufacturer Marathon

Type Ext. Voltage Regulated, Brushless

Gen Frame MAGNAPLUS

InsulationNEMAMaterialClass H

Temperature Rise 130 °C, Standby

 Hertz
 60

 Phase
 3

 RPM
 1800

 Exciter
 Rotating

Leads 12 Reconnectable or 4 Single Phase

PF 0.8
Ambient 40°C
Coupling Single Bearing Flexible
Amortisseur Windings Full
Cooling Air Volume 250 CFM

Peak Motor Starting 30% Voltage Dip, 250 skVA Voltage Regulation 1 Phase Sensing 1%

no-load and full-load Optional 3 Phase Sensing 1/2%

- NEMA MG1, IEEE, AND ANSI standards compliance for temperature and motor starting.
- Sustained short-circuit current of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and dripproof construction.
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor.
- Linkboards
- Optimized Electrical Design
- Enhanced Ventilation
- Fully Guarded
- Heavy Duty Bearings

STANDARD FEATURES

- Heavy Duty Steel Base
- Vibration Isolators
- Oil Drain Valve with Extension
- Battery Rack
- Battery Cables
- High Ambient Unit Mounted Radiator
- Battery Charging Alternator
- Factory Paint
- Factory Test Prior to Shipment
- 2 Year Warranty
- Owners Manual

AVAILABLE ACCESSORIES

OPEN UNIT

Narrow Skid Base

Radiator Duct Flange

Ship Loose Flex Exhaust

Ship Loose Critical Silencer

ENCLOSED UNIT

Wide Skid Base

Standard Enclosure With Internal Silencer Sound Attenuated Enclosure With Silencer

Load Center With Lights and GFI Receptacle

Sub-Base Fuel Tank

CONTROLLER

InteliLite Model IL-NT-MRS19

Ethernet Bridge

Remote Annunciator



MISCELLANEOUS

Flexible Fuel Lines

Coolant Drain Kit

Water Jacket Heater

Oil Pan Heater

Generator Strip Heater

Battery

Battery Charger

Pad Type Battery Heater

Battery Heater Blanket with Thermostat

Line Circuit Breaker

WARRANTY

3 Year Warranty

5 Year Warranty

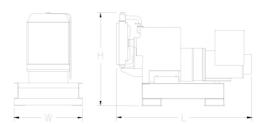
APPROVALS AND LISTINGS

UL Standard 2200

WEIGHTS AND DIMENSIONS

OVERALL SIZE, L x W x H, in.: 98 in. x 35.5 in. x 62 in. WEIGHT: 3040 lbs.

Note: Dim and weights reflect standard open unit with no options



Note: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

DISTRIBUTED BY:

PENNCAT CORPORATION 404 ELM AVENUE NORTH WALES, PA 19454 TEL: (610) 272-0505 www.PENNCAT.com