

SPECIFICATION SHEET

Power	Ratings	kW	kVA		
Davisa	Standby	80	125		
Power	Prime	90	112		
0.8 PF	240V	277			

Single output Voltage Change Selector Switch: 120/240V, 120/208V, 277/480V

Rating Definitions: Rated for 1800 rpm.

Standby ratings is applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. A standby rated engine should be sized for a maximum of an 80% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Standby Power rating. Ratings are established based on 85°F (29°C) and an elevation of 1,000 feet (305 meters). {Generator rated & tested in 40°C ambient)

STANDARD FEATURES:

Tradewinds Power Corp (TPC) fully integrated Mobile power generator set, provides optimum performance, reliability and versatility. Efficiency matched heavy duty diesel engine, with an AC Synchronous, brushless, single bearing alternator. All TPC systems and components are prototyped, assembled and tested within a purpose built packaging, manufacturing, and test facility.

Engine:

- · Perkins model 1204F-E44TTAG2 1200 series diesel engine
- · U.S. EPA non road (or off road) Tier 4 Final
- · Aftertreatment technology with DOC and SCR
- · Electronic high pressure common rail
- Heavy duty rated for standby and continuous prime power operation
- · Cooling system capable of operation at 120°F ambient
- 1200 Series EP engines are a fully electronic fuel system for superior performance and low fuel consumption
- · Series turbocharged aftercooled
- Hydraulic tappets, multi-vee belts, service free aftertreatment and 500 hour oil change intervals also keep your maintenance costs as low as possible

Alternator:

- · Marathon Electric 4-pole, brushless, 12 leads AC alternator
- · Double shielded and pre-lubricated single bearing
- Class H insulation UL1446 utilizes an unsaturated polyester varnish for optimal insulation life and superior moisture protection. A tropical insulation is added for increased environmental protection
- Optimized electrical design with four-pole, brushless features, utilizes a 2/3 pitch winding to minimize harmonic distortion
- Vacuum-impregnated windings with fungus-resistant epoxy for dependability and long-life NEMA MG-32, BS5000, IEC 34-1.
- · Permanent Magnet Generator (PMG) Excitation with BE2000 voltage regulator.

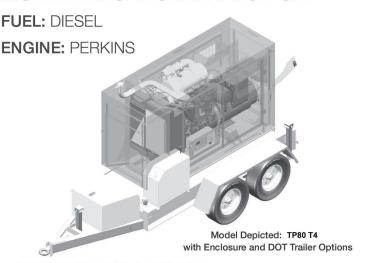
Starting System:

- 12-VDC Starter
- · Engine mounted Battery Charging Alternator
- · Battery Cables and Rack along with Grounding Strap

Factory Fitted Generator Options for Model TP100:

- · Voltage selector switch: Single output 120/240V, 120/208V, 277/480V
- Weather Protective Enclosure: constructed of Marine Grade Aluminum 0.125 thickness, SS Hardware, white powder coat paint finish on both sides, sound Insulation resistant to high temperatures, fuel and oil, hinged / removable / keyed alike doors, and 175mph wind load rating, and sound attenuation 68dBA measured at 27ft
- Fuel Tank: Double walled UL142 base mounted daily service tank
- Trailer: DOT road towing heavy duty steel, hydraulic brakes, 12,000lb. cap. 2 spring axle, 7-way RV style plug, adjustable channel 6-Hole 5-position Military Hitch (3" lunette eye) coupler, 15" high side wind jack, and semi-gloss textured urethane UV resistant waterproof paint coating for protection against rust, corrosion, salt and damp conditions.
- Battery Charge: Fully automatic self adjusting to generator battery 6 Amp, 12 VDC, 90-265A AC 50/60Hz 115 VAC, compact type, UL Listed.

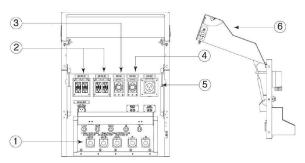
MOBILE DIESEL GENERATOR SET



CONNECTION PANEL & CONTROLS:

- 400A rated CAM docking station 120/240V, 120/208V, 277/480V, female connectors with snap cover
- 2. 2 x (2 x Receptacle 120V-20A duplex GFCI)
- 3. 1 x Receptacle 30A 120V
- 4. 1 x Receptacle 30A 240V
- 5. 1 x Receptacle Twist Lock 50A 240V
- 6. Terminal connection panel lid

Note: DGC 2020 controller within enclosure, & emergency stop mounted externally



AUTOMATIC GENERATOR CONTROLLER DGC2020:

- · Automatic generator controller with analog display of all functions
- · Microprocessor Based, Navigation key with large LCD display
- · SAE J1939 CANBUS Communication
- · Event Recording
- · Transfer Switch Control (main failures)
- · Alternator Protection: under/over voltage, under/over frequency
- Engine Protection: Low oil pressure, High coolant temperature, Over speed & over crank, Sender Unit failure, Fuel Failure sensor, Battery Charger Failure
- · All protections are programmable as Alarms or Pre-alarms
- Metering (ample range): Volts, Current, Hz, Watts, VA, Pf, Oil Pressure, Coolant Temperature, RPM, DC Volts, Fuel Level, Engine running time
- Engine Control with Timers
- · External remote start input (on or off load)
- 16 programmable contact inputs 7 Contact outputs

SCADA interface points:

- · No fuel, Low fuel
- Low battery charging voltage
- Engine running
- Common engine alarm
- · Switch in Emergency Position

Optional Equipment:

- · Low coolant level switch
- 17-light remote annunciator panel
- · Low coolant level switch

WARRANTY:

- Engine covered under the original equipment manufacturer's warranty consult Tradewinds Power Corp for details
- · Complete package supplied with 2-year unlimited warranty

The manufacture reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.





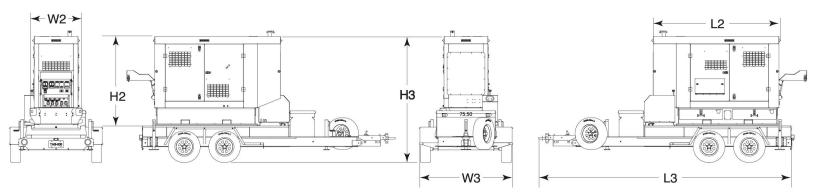
MOBILE DIESEL GENERATOR SET

Emissions Engine speed (rpm) Max. (Cont.) HP Power 1800 rpm 173 Cylinder arrangement 4 In-line Engine combustion system Direct Injection Aspiration Fuel direct injection system (Diesel) Number of Cylinders 4 Displacement in³ (liters) Bore and Stroke inches (mm) Cooling Governor Electronic Starting aids Compression ratio Air cleaner type Dry Type Sound at 1m from engine block dBA Max. Exh. Temp at full load degrees °F (°C) Exhaust aftertreatment Cooling System Engine Coolant Capacity quarts (Liters) Engine Cooling air flow - ft³/sec (m³/sec) LUBRICATING SYSTEM: Total lubricating capacity quarts (Liter) Recommended lubricating oil grade Dil Pressure – psi (kPA) Table 173 173 173 173 173 173 174 175 175 175 175 175 175 175	ENGINE SPECIFICATION:	
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Displacement in³ (liters) Bore and Stroke inches (mm) Cooling Water-cooled Governor Electronic Starting aids Compression ratio Air cleaner type Dry Type Sound at 1m from engine block dBA Max. Exh. Temp at full load degrees °F (°C) Exhaust aftertreatment DOC/DPF COOLING SYSTEM FOR OPERATING AT 120°F AMBIENT: Cooling System Water-cooled Engine Coolant Capacity quarts (Liters) Fan Belt driven pusher fan Radiator Eng. Cooling air flow - ft³/sec (m³/sec) LUBRICATING SYSTEM: Fotal lubricating capacity quarts (Liter) Recommended lubricating oil grade Dil Pressure – psi (kPA) TBA	Fuel direct injection system (Diesel)	High Pressure Common Rail
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COOLING SYSTEM FOR OPERATING AT 120°F AMBIENT: Cooling System Engine Coolant Capacity quarts (Liters) Fan Belt driven pusher fan Radiator Engine mounted Eng. Cooling air flow - ft³/sec (m³/sec) LUBRICATING SYSTEM: Total lubricating capacity quarts (Liter) Recommended lubricating oil grade Dil Pressure – psi (kPA) Water-cooled 4.8 (18.3) Belt driven pusher fan Engine mounted 137.7 (3.9) SAF 10W-30 TBA	Max. Exh. Temp at full load degrees ºF (ºC)	883 (473)
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Eng. Cooling air flow - ft³/sec (m³/sec) LUBRICATING SYSTEM: Total lubricating capacity quarts (Liter) Recommended lubricating oil grade Dil Pressure – psi (kPA) SAE 10W-30 TBA	Fan	Belt driven pusher fan
LUBRICATING SYSTEM: Total lubricating capacity quarts (Liter) 3.57 (13.5) Recommended lubricating oil grade SAE 10W-30 Dil Pressure – psi (kPA) TBA	Radiator	Engine mounted
Total lubricating capacity quarts (Liter) 3.57 (13.5) Recommended lubricating oil grade SAE 10W-30 Dil Pressure – psi (kPA) TBA	Eng. Cooling air flow - ft³/sec (m³/sec)	137.7 (3.9)
Recommended lubricating oil grade SAE 10W-30 Dil Pressure – psi (kPA) TBA	LUBRICATING SYSTEM:	<u> </u>
Oil Pressure – psi (kPA) TBA	Total lubricating capacity quarts (Liter)	3.57 (13.5)
	Recommended lubricating oil grade	SAE 10W-30
Dil Filter Full flow spin on, cartridge type	Oil Pressure – psi (kPA)	ТВА
	Oil Filter	Full flow spin on, cartridge type

ENGINE ELECTRICAL SYSTEM:				
Starting motor voltage	12 volt			
Charging alternator output - Amps	100			
Wet Cell Battery	Lead Acid			
ALTERNATOR:				
Configuration	12-wire brushless rotating field			
Frequency	60hz			
Voltage regulation	PMG PM300			
No load to full load voltage regulation	1/4% from no load to full load			
Coupling	Flange to Flywheel Housing			
Bearing	Single			
Manufacturer	Marathon			
Model	362PSL36115			
Load acceptance	2/3 pitch design			
Compliance	NEMA MG-1			
TIF Factor	Shall not exceed 50			
FUEL CONSUMPTION: PER HOUR GALS (LITE	RS) {STANDBY RATING}			
100%	8.7 (33.1)			
75%	6.0 (22.6)			
50%	4.2 (16.1)			
25%	2.5 (9.3)			
CONTROL PANEL SPECIFICATIONS:				
Manufacturer (Model)	Basler (DGC-2020ES)			
MPC-10 Controller Inputs	16			
MPC-10 Controller Outputs	12			
Operating power/consumption	6-32 VDC; Average load 14.2W			
Communications	UL 508 R & CSA C22.2 #14			
GENERATOR OPTIONS:				
Enclosure	Aluminum sound attenuated to 68 dBA			
Base arrangement	Rigid steel base frame with AVMs			
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DIMENSIONS & ARRANGEMENT DRAWING MOBILE MODEL (WITH DOT TRAILER & ENCLOSURE OPTION): TP80 T4

Spill containment



KEY DIMENSIONS AND WEIGHT BASIC OPEN SET, SOUND ENCLOSURE AND MOUNTED ON DOT TRAILER (* = Option Equipment)										
Description (inches)		Height	ht Width		Length		Dry weight lbs	Wet Weight lbs	Sound dBA	Fuel Tank Gals *
Enclosed Set	H2	62.0	W2	36.0	L2	103.0	2940	3015	60	350
Trailer mounted *	НЗ	103.34	W3	74.57	L3	203.97	6015	6158	68	250

UL double wall base mounted