

SPECIFICATION SHEET

Power	Ratings	kW	kVA		
Davian	Standby	20.0	20.0		
Power	Prime	18.0	18.0		
Ampage Unity PF	240V(120V)	83 (166)			
4-wire voltages: 1P = 120/240					

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).

STANDARD FEATURES:

Tradewinds Power Corp (TPC) Diesel Hyundai powered mobile configured generator sets are self contained standby generator packages complete with mounted auto start controls, air cleaners, exhaust silencer, vibration isolators between assembly and feet, mounted radiator, muffler, and oil & coolant drain lines. All TPC systems and components are prototyped, assembled and tested within a purpose built packaging, manufacturing, and test facility.

Enginendai model D18 diesel engine

- EPA Tier 4 Final & Stage IIIB
- · Direct injection high pressure common rail @ 1800 bar
- Heavy duty rated for standby and continuous prime power operation
- Cooling system capable of operation at 120°F ambient
- The Hyundai 109.5 CID diesel is best in class for meeting the latest emission regulations. Exhaust after-treatment includes Diesel Oxidation Catalyst (DOC)
- · Turbo-Intercooler for maximum efficiency and compact power
- · Low noise and vibration due to better combustion and engine balance
- Cleaner burn means no DPF and lower maintenance costs

Alternator:

- · Stamford 4-pole, brushless, dedicated single phase winding 311
- Single bearing
- Class H insulation system 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
- AS480 AVR fitted as standard, with this self-excited system the main stator provides power via the AVR to the exciter stator. The high efficiency semi-conductors of the AVR ensure positive build-up from initial low levels of residual voltage.

Starting System:

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

Factory Fitted Generator Options for Model TD20:

- · Voltage selector switch: 3-phase & 1-phase arrangements
- Weather Protective Enclosure: constructed of Marine Grade Aluminum 0.090 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
- · Battery Charge: Fully automatic self adjusting to generator battery

MODEL: TH20 T4F

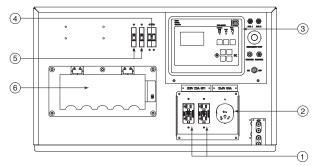
MOBILE DIESEL GENERATOR SET

FUEL: DIESEL

ENGINE: HYUNDAI



- 1. 2 x Receptacle 120V 20A GFCI
- 2. 1 x Receptacle Twist Lock 50A 240V
- 3. Generator Controller DGC2020
- 4. 1 x Circuit breaker 2Pole 20A
- 5. 2 x Circuit breaker 1Pole 20A
- 6. 4 x Compression connector lugs



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

Optional Equipment:

· Low coolant level switch

· Low coolant level switch

· 17-light remote annunciator panel

- 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

WARRANTY:

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

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



MODEL: TD20 T4F	MO	DEL:	TD20	T4F
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MOBILE DIESEL GENERATOR SET

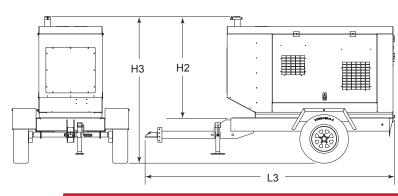
ENGINE ELECTRICAL SYSTEM:

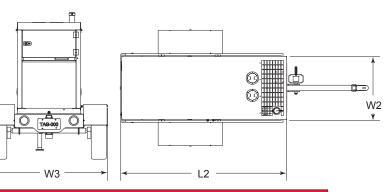
Manufacturer and ModelHyundai Model # D18EmissionsEPA Tier 4 - Final & Stage IIIBEngine speed (rpm)1800Max. (Cont.) HP Power 1800 rpm39.54Cylinder arrangementIn-line 3Engine combustion systemDiesel Direct InjectionAspirationTurbo-intercoolerFuel direct injection system (Diesel)High Press. Com. Rail 1800 baarNumber of Cylinders3Displacement in ³ (liters)109.48 (1.794)Bore and Stroke inches (mm)3.55 X 3.70 (90 x 94)CoolingWater-cooledGovernorElectronicStarting aidsGlow PlugsCongression ratio17.0:1Air cleaner type932 (500)Stand at Im from engine block dBATBAMax. Exh. Temp at full load degrees °F (°C)932 (500)Engine Coolant Capacity quarts (Liters)3.48 (3.3)FanBelt driven pusher fanRadiatorEngine mountedFanBelt driven pusher fanRadiatorFagine mountedEngine Cooling air flow - ft³min (m³min)TBAEUERICATING SYSTEMENTTotal lubricating capacity quarts (Liters)AradiatorFagine mountedFagine mounted lubricating oil gradeSAE 10W-30Gil Pressure – psi (kPA)3.5 (300)Gil FilterFull flow spin on, cartridge type	ENGINE SPECIFICATION:	
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Exhaust aftertreatmentDiesel Oxidation Catalyst (DOC)COOLING SYSTEM FOR OPERATING AT 120°F AMBIENT:Cooling SystemWater-cooledEngine Coolant Capacity quarts (Liters)3.48 (3.3)FanBelt driven pusher fanRadiatorEngine mountedEng. Cooling air flow - ft³/min (m³/min)TBALUBRICATING SYSTEM:Total lubricating capacity quarts (Liter)6.66 (6.3)SAE 10W-30Oil Pressure – psi (kPA)43.5 (300)	Sound at 1m from engine block dBA	ТВА
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Radiator Engine mounted Eng. Cooling air flow - ft³/min (m³/min) TBA LUBRICATING SYSTEM: 5.66 (6.3) Total lubricating capacity quarts (Liter) 6.66 (6.3) Recommended lubricating oil grade SAE 10W-30 Oil Pressure – psi (kPA) 43.5 (300)	Engine Coolant Capacity quarts (Liters)	3.48 (3.3)
Englished and the second se	Fan	Belt driven pusher fan
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Recommended lubricating oil grade SAE 10W-30 Oil Pressure – psi (kPA) 43.5 (300)	LUBRICATING SYSTEM:	
Oil Pressure – psi (kPA) 43.5 (300)	Total lubricating capacity quarts (Liter)	6.66 (6.3)
	Recommended lubricating oil grade	SAE 10W-30
Oil Filter Full flow spin on, cartridge type	Oil Pressure – psi (kPA)	43.5 (300)
	Oil Filter	Full flow spin on, cartridge type

Endine EELOTTIOAE OTOTEIN.			
Starting motor voltage	12 volt		
Charger	90 A Alternator with DC output		
Wet Cell Battery	Lead Acid		
ALTERNATOR:			
Configuration	Brushless, Single Phase, 4-wire, 4-pole		
Frequency	60 Hz		
Voltage regulation	+ / - 1%, V/Hz, Electronic, EMI filtered		
No load to full load voltage regulation	+/- 0.5%.		
Coupling	SAE Adapter, Flexible Disc, Direct		
Bearing	Single		
Manufacturer	Stamford		
Model	PI144E		
Load acceptance	One Step, 100% per NFPA 110		
Compliance	NEMA, IEEE & ANSI for temp. rise		
Construction	Self ventilated drip-proof		
FUEL CONSUMPTION: PER HOUR GALS (LITE	RS)		
100%	2.1 (7.9)		
75%	1.61 (6.1)		
50%	1.1 (4.3)		
25%	0.69 (2.6)		
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		
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DIMENSIONS & ARRANGEMENT DRAWING MOBILE MODEL (WITH DOT TRAILER & ENCLOSURE OPTION): TD20T4F

Base arrangement Spill containment





Rigid steel base frame with AVMs

UL double wall base mounted

KEY DIMENSIONS AND WEIGHT BASIC OPEN SET, SOUND ENCLOSURE AND MOUNTED ON DOT TRAILER (* = Option Equipment)										
Description (inches)		Height	Width Length		Dry weight lbs	Wet Weight Ibs	Sound dBA	Fuel Tank Gals *		
Open Set	H1	44.00	W1	36.00	L1	74.00	785	848	82	
Enclosed Set *	H2	46.38	W2	34.00	L2	89.00	1167	1227	68	80
Trailer mounted *	H3	73.35	W3	62.27	L3	132.13	2567	2645		

TRADEWINDS POWER CORP • 5820 NW 84th Avenue • Miami • Florida 33166

Call: 800.223.3289 or email: info@tradewindspower.com