

SPECIFICATION SHEET

Power	Ratings	kW	kVA			
Davisa	Standby	60.0	75.0			
Power	Prime	54	67.5			
Ampage 0.8 PF	240V	181				
12-wire voltages: 1P = 120/240; 3P = 120/208, 120/240, 480/277						

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 control panel, air cleaners, exhaust silencers, and other accessories mounted on a steel frame, with vertical radiator and exhaust discharge and oil & coolant drain Lines. All TPC systems and components are prototyped, assembled and tested within a purpose built packaging, manufacturing, and test facility.

Engine:

- · Hyundai model D34 diesel engine
- · EPA Tier 4 Final & Stage IV
- · 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 208 CID diesel is best in class for meeting the latest emission regulations. Exhaust after-treatment includes Diesel Oxidation Catalyst (DOC) and selective catalytic reduction (SCR)
- · 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:

- · Marathon 4-pole, 12-wire brushless generator, 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
- SE350 voltage regulator encapsulated for reliable performance in all environments. The SE350 regulator provides 1% regulation, under-speed protection, stability adjustment to optimize transient performance, and EMI filtering to commercial standards.

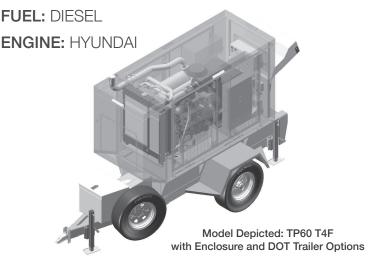
Starting System:

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

Factory Fitted Options:

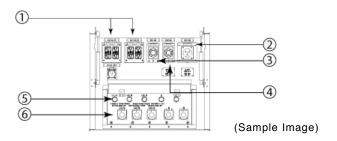
- Weather Protective Enclosure constructed of Marine Grade Aluminum 0.125 thickness, SS Hardware, white powder coat paint finish on both sides, sound Insulation resistant to high temperatures, fuel and oil, hinged / removable / keyed alike doors, and 175mph wind load rating
- · Double walled UL142 base mounted daily service fuel tank
- · DOT road towing trailer

MOBILE DIESEL GENERATOR SET



CONNECTION PANEL & CONTROLS:

- 1. 2 x (2 x Receptacle 120V-20A GFCI)
- 2. 1 x 240V 50A Twist Lock
- 1 x Receptacle 30A 120V
- 4. 1 x Receptacle 30A 240V
- 5. 5 x Compression Lugs
- 6. 5 x Camlock Type Connectors



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)
- 7 programmable contact inputs 4 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 limited warranty

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



MODEL: TH60 T4F

TRADEWINDS® POWER CORP

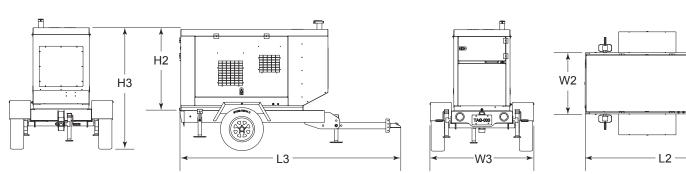
MOBILE DIESEL GENERATOR SET

nufacturer del	Hyundai			
dal				
uei	Hyundai D34			
issions	EPA Tier 4 - Final & Stage IV			
rine speed (rpm)	1800			
x. (Cont.) HP Power 3600 rpm	98			
inder arrangement	In-line 4			
ine combustion system	Diesel Direct Injection			
oiration	Turbo-intercooler			
el direct injection system (Diesel)	High Press. Com. Rail 1800 bar			
mber of Cylinders	4			
placement in ³ (liters)	208 (3.409)			
re and Stroke inches (mm)	3.86 X 4.45 (98 x 113)			
oling	Water-cooled			
vernor	Electronic			
rting aids	Glow Plugs			
npression ratio	17.0:1			
cleaner type	Medium duty dry type			
ınd at 1m from engine block dBA	TBA			
x. Exh. Temp at full load degrees ºF (ºC)	972 (540)			
aust aftertreatment	DOC + SCR			
DLING SYSTEM FOR OPERATING AT 120°F AMB	IENT:			
oling System	Water-cooled			
gine Coolant Capacity quarts (Liters)	5.39 (5.1)			
	Belt driven pusher fan			
liator	Engine mounted			
g. Cooling air flow - ft³/min (m³/min)	TBA			
BRICATING SYSTEM:				
al lubricating capacity quarts (Liter)	13.32 (12.6)			
commended lubricating oil grade	SAE 10W-30			
Pressure – psi (kPA)	43.5 (300)			
Filter	Full flow spin on, cartridge type			

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ENGINE ELECTRICAL SYSTEM:				
Starting motor voltage	12 volt			
Charger	90 A Alternator with DC output			
Wet Cell Battery	Lead Acid			
ALTERNATOR:				
Configuration	Brushless, 3-Phase, 12-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	Marathon			
Model	361PSL1602			
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 (LITERS)				
100%	5.1 (19.4)			
75%	3.80 (14.4)			
50%	2.61 (9.9)			
25%	1.53 (5.8)			
CONTROL PANEL SPECIFICATIONS:				
Manufacturer (Model)	Basler (DGC-2020ES)			
MPC-10 Controller Inputs	7			
MPC-10 Controller Outputs	4			
Operating power/consumption	6-32 VDC; Average load 14.2W			
Communications	UL 508 R & CSA C22.2 #14			
ENCLOSURE AND ARRANGEMENT OF COMPLETE A	ASSEMBLY:			
Coupling	Close coupled to flywheel flange			
Enclosure (Option)	Aluminum for weather protection			
Base arrangement	Rigid steel base frame with AVMs			

DIMENSIONS & ARRANGEMENT DRAWING MOBILE MODEL (WITH DOT TRAILER & ENCLOSURE OPTION): TD60 T4

Spill containment (Option)



KEY DIMENSIONS AND WEIGHT BASIC OPEN SET, SOUND ENCLOSURE AND MOUNTED ON DOT TRAILER (\star = Option Equipment)										
Description (inches)		Height	Width		Length		Dry weight lbs	Wet Weight lbs	Sound dBA	Fuel Tank Gals *
Open Set	Н1	55.0	W1	36.00	L1	95.0	1787	1872	82	
Enclosed Set *	H2	51.0	W2	36.0	L2	116.35	2070	2146		120
Trailer mounted *	НЗ	84.36	W3	62.77	L3	148.5	3459	3575	68	

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UL double wall base mounted