

SPECIFICATION SHEET

Ratings	kW	kVA		
Standby	60.0	75.0		
Prime	54	67.5		
240V	181			
	Standby Prime	Standby 60.0 Prime 54		

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 Doosan 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:

- · Doosan 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 Doosan 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.

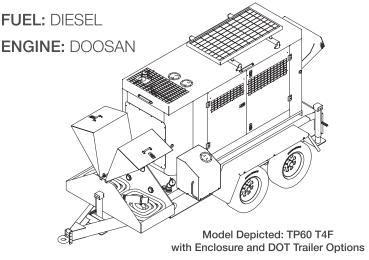
Starting System:

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

Factory Fitted Options:

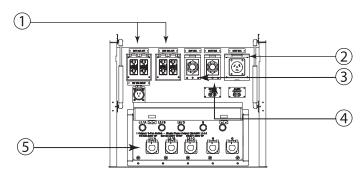
- Weather Protective Enclosure constructed of Marine Grade Aluminum 0.125 thickness, SS Hardware, white powder coat paint finish on both sides, sound Insulation resistant to high temperatures, fuel and oil, hinged / removable / keyed alike doors, and 175mph wind load rating
- · Double walled UL142 base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

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.





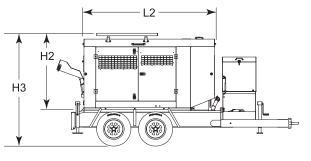
MOBILE DIESEL GENERATOR SET

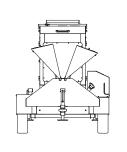
ENGINE SPECIFICATION:	
Manufacturer	Doosan
Model	Doosan D34
Emissions	EPA Tier 4 - Final & Stage IV
Engine speed (rpm)	1800
Max. (Cont.) HP Power 3600 rpm	98
Cylinder arrangement	In-line 4
Engine combustion system	Diesel Direct Injection
Aspiration	Turbo-intercooler
Fuel direct injection system (Diesel)	High Press. Com. Rail 1800 bar
Number of Cylinders	4
Displacement in ³ (liters)	208 (3.409)
Bore and Stroke inches (mm)	3.86 X 4.45 (98 x 113)
Cooling	Water-cooled
Governor	Electronic
Starting aids	Glow Plugs
Compression ratio	17.0:1
Air cleaner type	Medium duty dry type
Sound at 1m from engine block dBA	TBA
Max. Exh. Temp at full load degrees ºF (ºC)	972 (540)
Exhaust aftertreatment	DOC + SCR
COOLING SYSTEM FOR OPERATING AT 120°F AM	BIENT:
Cooling System	Water-cooled
Engine Coolant Capacity quarts (Liters)	5.39 (5.1)
Fan	Belt driven pusher fan
Radiator	Engine mounted
Eng. Cooling air flow - ft³/min (m³/min)	TBA
LUBRICATING SYSTEM:	
Total lubricating capacity quarts (Liter)	13.32 (12.6)
Recommended lubricating oil grade	SAE 10W-30
Oil Pressure – psi (kPA)	43.5 (300)
Oil Filter	Full flow spin on, cartridge type
	- I

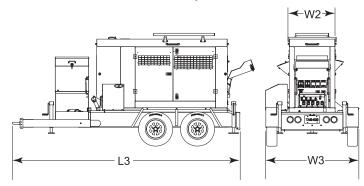
WOBIEE BIEGEE	GENERALOR SET			
ENGINE ELECTRICAL SYSTEM:				
Starting motor voltage	12 volt			
Charger	90 A Alternator with DC output			
Lead Acid -Wet Cell Battery	No less than 960CCA			
ALTERNATOR:				
Configuration	Brushless, 3-Phase, 12-wire, 4-pole			
Frequency	60 Hz			
Voltage regulation	+ / - 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	16			
MPC-10 Controller Outputs	12			
	6-32 VDC; Average load 14.2W			
Operating power/consumption	0-32 VDC, Average load 14.2VV			
Operating power/consumption Communications	UL 508 R & CSA C22.2 #14			
	UL 508 R & CSA C22.2 #14			
Communications	UL 508 R & CSA C22.2 #14			
Communications ENCLOSURE AND ARRANGEMENT OF COMPLETE A	UL 508 R & CSA C22.2 #14 SSEMBLY:			

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

Spill containment (Option)







UL double wall base mounted

KEY DIMENSIONS AND WEIGHT BASIC OPEN SET, SOUND ENCLOSURE AND MOUNTED ON DOT TRAILER (\star = Option Equipment)										
Description (inches)		Height	Width Length		ength_	Dry weight lbs	Wet Weight lbs	Sound dBA	Fuel Tank Gals *	
Open Set	H1	55.00	W1	36.00	L1	95.00	1787	1872	82	
Enclosed Set *	H2	51.00	W2	36.00	L2	116.35	2070	2146	68	120
Trailer mounted *	НЗ	89.08	W3	73.00	L3	187.86	3459	5430		

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

Call: 800.223.3289 or email: info@tradewindspower.com