

SPECIFICATION SHEET

Power Ratings		kW	kVA	
Power	Standby	750	938	
	Prime	675	844	
Amps 0.8 Power Factor 3-phase 208V		2100		
12-wire voltages: 1P = 120/240; 3P = 120/208, 120/240, 480/277				

Rating Definitions: Rated for 1800 rpm.

Standby ratings are applicable for the duration of any power outage. No overload is available at these ratings. Prime ratings are continuous per BS 5514, DIN 6271, ISO3046 & IEC 34-1. Overload capacity on prime-power ratings is 10% for one hour in each twelve hours of operation. All single phase ratings are based on a 1.0 power factor, three (3) phase ratings based on a 0.8 power factor. Ratings are established based on 85°F (29°C) and an elevation of 1,000 feet (305 meters).

STANDARD FEATURES:

Tradewinds Power Corp (TPC) Hyundai diesel powered generator sets are UL2200 approved self contained standby generator packages complete with mounted auto control panel, fuel connector, air cleaners, exhaust silencers, and other accessories mounted on a rigid base frame. All TPC systems and components are prototyped, assembled and tested within a purpose built packaging, manufacturing, and test facility.

Engine:

- Hyundai model DP222CCS 4-cycle diesel engine designed to provide economic and durable operation at prime and standby duties, hitting the key power nodes required by the power generation industry.
- The DP222CCS is a turbocharged and air-to-air charge cooled, 12 cylinder V-type diesel engine of 21.9 liters capacity. Its premium features provide economic and durable operation, low exhaust emissions and advanced overall performance and reliability.
- Its premium features provide exceptional power to weight ratio resulting in exceptional fuel consumption
- Designed to provide excellent service access for ease of maintenance
- High compression ratios ensure clean rapid starting in all conditions
- Bosch electronic high pressure fuel pump and controlled by ECU

Alternator:

- Stamford S6L1D-F4 4-pole, 12-wire brushless generator, single bearing
- Superior voltage waveform achieved by a 2/3 pitch and skewed rotor.
- Vacuum-impregnated windings with fungus-resistant epoxy for dependability and long-life
- Sustained short-circuit capability enabling down-line circuit breakers to trip without collapsing the generator field

Starting System:

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

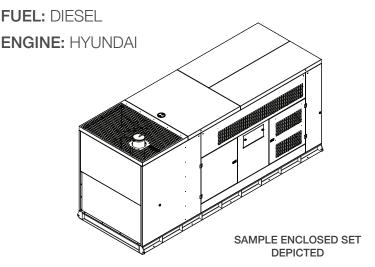
Enclosure and Arrangement of Complete Assembly:

- Engine and generator close coupled on rigid frame with vibration isolators
- · Vertical radiator and exhaust discharge
- · Oil & Coolant Drain Lines with Brass Ball Check Valves

Generator 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
- · UL double wall base mounted fuel tank
- · Residential rated interior mounted exhaust silencer kit

STANDBY UL GENERATOR SET



AUTOMATIC ENGINE CONTROLLER DGC2020:

- · Automatic engine 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 battery charging voltage
- · Engine running
- Common engine alarm
- · Switch in Emergency Position



DGC-2020 DIGITAL CONTROLLER

OPTIONAL CONTROL EQUIPMENT:

- · Low coolant level switch
- · Water separator fuel filter
- · Space heater
- · Generator drip covers
- 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.



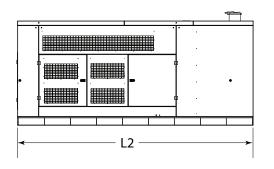


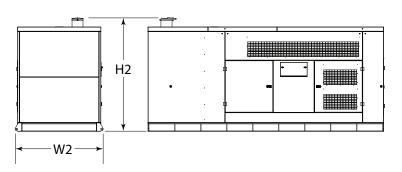
STANDBY GENERATOR SET

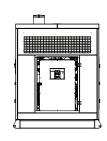
ENGINE SPECIFICATION	
Manufacturer	Hyundai
Model	DP222CCS
Emissions	EPA Tier 3
Engine speed (rpm)	1800
Nominal Engine hp 1800rpm	1110
Cylinder arrangement	V-Type
Combustion system	Electronic high pressure common rail
Aspiration	Turbo charged & inter-cooled
Engine type	Diesel
Diesel Fuel Grade	ASTM D975 D2
Number of Cylinders	12
Displacement in ³ (liters)	1336 (21.9)
Bore and Stroke inches (mm)	5.04 x 5.59 (128 X 142)
Cooling	Water-cooled
Governor	Electronic
Starting aids	Glow Plugs
Compression ratio	14.6:1
Air cleaner type	Medium duty dry type
Exhaust Silencer dBA	80dBA
Oil Filtration	Engine Mounted/water separator
COOLING SYSTEM FOR OPERATING AT 120° AMB	IENT:
Total coolant capacity gals (Liter)	17.5 (66.0)
Cooling System	Water-cooled
Radiator System	Engine Mounted
Maximum Allowable Oil Temperature F (C)	248 (120)
LUBRICATING SYSTEM:	
Total lubricating capacity quarts (Liter)	79 (75.0)
Oil consumption at full load	< 0.1% of fuel consumption
Recommended lubricating oil grade	SAE 10W40 (API C1-4 Grade)
Oil Filter	Full flow spin on, cartridge type

STANDDI	GENERALON SET			
ENGINE ELECTRICAL SYSTEM:				
Starting motor voltage	24 volt			
Charger	45 amp alternator with DC output			
Wet Cell Battery	Lead Acid			
ALTERNATOR:				
Configuration	Brushless, 12-wire, 4-pole			
Frequency	60 Hz			
Voltage regulation	+ / - 1%, V/Hz, Electronic, EMI filtered			
No load to full load voltage regulation	+/- 2%.			
Coupling	SAE Adapter, Flexible Disc, Direct			
Bearing	Single			
Manufacturer	Stamford			
Model	S6L1D-F4 Wdg. 311/312			
Load acceptance	One Step, 100% per NFPA 110			
Compliance	NEMA, IEEE & ANSI for temp. rise			
TIF Factor	Self ventilated drip-proof			
FUEL CONSUMPTION: PER HOUR GALS (LITERS)				
Standby power	65.1 (246)			
Prime power	58.2 (220)			
75%%	51.1 (193)			
50%	35.7 (135)			
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:				
Aluminum Enclosure	Sound attenuated to 68 dBA			
Base arrangement	Rigid steel base frame with AVMs			
Spill containment	UL double wall base mounted			
Spill containment	OL double wall base illounted			

DIMENSIONS & ARRANGEMENT DRAWING MODEL: TD750 T2







KEY DIMENSIONS (inches), WEIGHT (pounds) FUEL TANK (US gals)									
Description & Configuration	He	ight	Length		Width		Dry Weight lbs	Fuel Tank	
Open set	H1	TBA	L1	TBA	W1	TBA	TBA	TBA	
Enclosed Set	H2	94.00	L2	212.00	W2	75.00	5625	TBA	