



POWERING BUSINESS. EMPOWERING PEOPLE.

U150PE-60

Powered by Perkins

Diesel Generating Set
480/277V, 208/120V, 60HZ, .8 p.f.

Standby:	kW	150
	kVA	187.5
Prime:	kW	135
	kVA	168.75

USP&E generators are available in a variety of power ratings and installation styles to meet the energy needs of the smallest businesses to the largest manufacturing facilities. All generator sets are designed to ensure fast startup and dependable long-term operation. USP&E generators provide clean, quiet, and environmentally friendly electrical power when you need it most. Emergency backup, standby, prime power, peak shaving, or for any of your day or night electrical power needs, you can count on a dependable USP&E generator for the peace of mind and security you desire.

Standby and Prime Power Features

- High quality, reliable, and complete power unit
- Easy startup and low maintenance
- Backed by a worldwide network of parts and service centers
- Subject to a comprehensive test program that includes full load testing, control system functions, and shut down testing
- Manufactured in a dedicated and secure ISO-9001 certified facility
- Optional sound attenuated environmental enclosures available
- Full range of genset accessories and factory installed options available

Standby: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings, in accordance with ISO 3046

Prime: Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period, in accordance with ISO 3046



Engine

- Heavy duty Perkins diesel engine
- Four stroke water-cooled natural aspiration
- Direct injection fuel system
- ECM governor system
- Replaceable fuel filter, oil filter, and dry element air filter
- Cooling radiator and fan
- Starter battery (with lead acid) including rack and cables
- Flexible fuel connection hoses and manual oil sump drain valve
- Industrial capacity exhaust silencer and steel bellows
- Jacket water heater (on automatic models)
- Operation manuals and circuit diagram documents

Alternator

- Brushless, single bearing system, flexible disc, 4 poles
- Insulation Class H
- Standard degree of protection IP21 (IP22/IP23 avail.)
- Self-exciting and self-regulating
- Impregnation with tropicalized epoxy varnish
- Solid state automatic voltage regulator
- Stator winding with 2/3 pitch for improved harmonics



Manufacturer reserves the right to make changes in model, technical specifications, color, equipment, and accessories without prior notice

Alternator Ratings

Make	Marathon
Model	MP-128-4
Size	852 mm x 600 mm x 865 mm
Design	Brushless single bearing, revolving field
Stator	2/3 pitch
Rotor	Single bearing, flexible disc
Insulation System	Class H
Standard Temperature Rise	125°C Prime – 150°C Stand by
Exciter Type	Self-excited (PMG excitation is optional)
Phase Rotation	A (U), B(V), C(W)
Alternator Cooling	Direct drive centrifugal blower fan
AC Waveform Total Harmonic Distortion	No load < 1.5%. Non-distorting balanced linear load < 5%
Telephone Influence Factor (TIF)	<50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	<2%

Engine Specifications

Manufacturer	Perkins
Model	1106D-E66TAG3
EPA Certification	Tier 3
Engine Power Output at Rated RPM	213.7 BHP 159.4 kWm 216.9 HP
Aspiration and Cooling	Turbo charged
Total Displacement	402.7 cubic inches 6.6 liter
No of Cylinders and Build	6, inline
Engine Speed	1800 RPM
Bore and Stroke	4.13 inches x 5 inches 105 mm x 127 mm
Compression Ratio	16.2:1
Governor	ECM
Starter Motor Voltage	12V
Fuel Consumption @ 100% Load	10.59 gallons per hour
Fuel Consumption @ 75% Load	8.34 gallons per hour
Fuel Consumption @ 50% Load	6.18 gallons per hour
Fuel Consumption @ 25% Load	2.43 gallons per hour
Fuel Tank Capacity	N/A
Oil Capacity	4.35 gallons 16.5 liters
Coolant Capacity	5.54 gallons 21 liters
Radiator Cooling Air	11081.7 cfm 313.8 m ³ /min
Air Intake - Engine	437.9 cfm 12.4 m ³ /min
Exhaust Gas Flow	1041.7 cfm 29.5 m ³ /min
Standard Operating Temp Degree of Radiator	40°C
Sound Level @ 1 Meter / @ 7 Meter	88/78 db

Control System

Control supervision and protection panel is mounted on the genset base frame.



Auto Mains Failure Control Panel

- Control with AMF module
- Static battery charger
- Emergency stop push button

Generating Set Control Module DSE 7320 Features

- Monitors main supply
- Starts and stops standby generating set
- Micro-processor based design
- Automatic control of main and generator contactors
- Monitors engine performance and AC power output
- LED alarm indication
- Front panel configuration of timers and alarm trip points
- Easy push button control with STOP/RESET – MANUAL - TEST – AUTO – MUTE ALARM – START

LED Configurable Indicators

- Mains available
- Generator available
- Mains on load
- Generator on load

Power Outlet Terminal Board Mounted on the Genset Base Frame

Metering via LED display

- Generator Voltage (L-L / L-N)
- Engine Oil Pressure (PSI-Bar)
- Generator Ampere (L1, L2, L3)
- Engine Temperature (°C & °F)
- Generator Frequency (Hz)
- Plant Battery Volts
- Engine Hours Run
- Mains Volts (Ph-Ph / Ph-N)
- Generator kVA, kWh
- Generator kW as % of rated kW setting
- Generator Cos (σ)

Alarms

- Over and Under Speed
- Low and High Battery Volt
- Start and Stop Failure
- Charge Fail
- Over Current
- Under / Over Generator Voltage
- Low Oil Pressure
- Emergency Stop
- High Engine Temperature
- kW Overload
- Unbalanced Load
- Independent Earth Fault Trip

Optional Equipment

Diesel Engine

- Oil heater

Alternator

- ¾ Pole output circuit breaker
- Anti-condensation heater

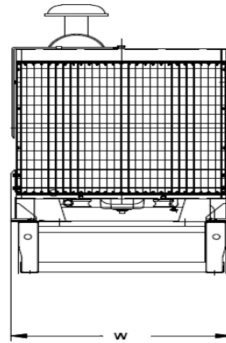
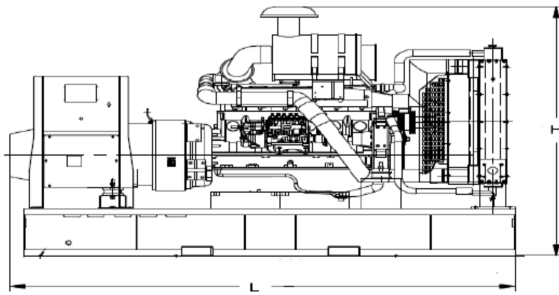
Panel

- Charge amp meter
- Transfer switch 3 pole
- Transfer switch 4 pole
- Earth fault, single set

Accessories

- Automatic filling system
- Low fuel level alarm
- Residential silencer
- Enclosure or sound-proof enclosure
- Trailer
- Manual oil drain pump
- Tool kit for maintenance
- Fuel-water separator

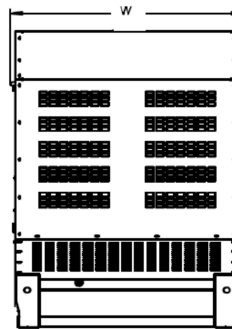
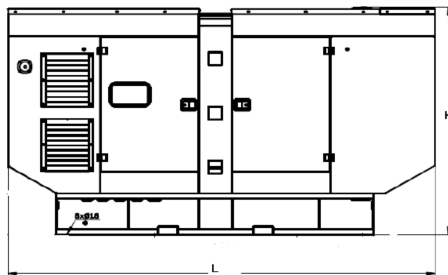
Open-Skid



- The complete genset is mounted on a heavy duty fabricated, steel base frame
- Anti-vibration pads are fixed between the engine / alternator feet and the base frame
- Base frame design incorporates an integral fuel tank (with sizes up to 750kVA) NON-UL

- The generating set can be lifted or carefully pushed / pulled by the base frame
- Dial type fuel gauge and drain plug on the fuel tank
- Forklift pockets within base frame (with sizes up to 500kVA)

Sound Attenuated



- All enclosure parts are designed with modular principles without welding assembly
- Doors on each side
- All metal enclosure parts are electrostatically powder-coated

- Exhaust silencer is protected against environmental influences
- Thermally insulated engine exhaust system
- Emergency stop push is installed outside of the enclosure
- Ease of lifting and moving
- Easy maintenance and operation

Dimensions

Open Skid	
Dimensions (L x W x H)	90.4 inches x 43.3 inches x 62.5 inches 2295 mm x 1100 mm x 1588 mm
Dry Weight	3924 lbs 1780 Kg
Sound-Attenuated	
Dimensions (L x W x H)	128 inches x 45.79 inches x 70 inches 3250 mm x 1163 mm x 1778 mm
Dry Weight	4870 lbs 2209 Kg



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