

Model-PE440



*Drawing above for illustration purposes only

I . GENERAL DATA

Prime Power	kW/kVA	400	500
Standby Power	kW/kVA	440	550
Frequency	Hz/rpm	60	1800
Voltage	V	480	277
Current	A	601	
Connection	/	3P4W / Y	
Rated Power Factor	/		
Open Type (L×W×H)	IN	129.0 ×45.3×82.7	
Open Type(Weight)	LB	8267	
Silent Type (L×W×H)	IN	189×66.9×89.9	
Silent Type(Weight)	LB	11244	

■ Available for voltages 400/230V, 480/277V, 380/220V, 440/254V, 416/240V, 220/127V, 208/120V

■ All datas based on ISO 3046, alteritude 100m (328.1ft), barometric pressure 100kPa (29.53inHg), air temperature 25 °C (77°F), relative humidity 30%.

■ Please contact with UQ-Power engineering for correct generator capacity selection when the load application does not meet with the standard reference.

■ UQ-Power diesel generators comply with standards ISO8528, ISO 14000, ISO3046, GB755, BS5000, VDE0530, ISO3046, IEC34-1

II . STANDARD CONFIGURATION

Engine	Perkins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.
Alternator	Yanan brushless AC alternator
Radiator	40°C, fan protective shroud
Base frame	base mounted fuel tank, anti-vibration pads, battery holder channel steel base frame, base mounted fuel tank, anti-vibration pads, battery holder
Circuit Breaker	Molded case circuit breaker(MCCB).
Control System	DEEP SEA 6020
Start Battery	Lead Acid-battery (optional) connection cables.
Installation Accessories	Bellow, Elbow and flange, Exhaust silencer, etc.
Documents	electric drawing, operation & maintenance manual, certification etc.

Optional Available Equipment

Engine accessories	◇ Heavy-duty air filter ◇Coolant heater ◇Lube oil heater ◇Fuel and Water Separator
Cooling system	◇50°C radiator ◇Heat exchanger + water cooling tower + External water circulation pumping system + Remote horizontal water tank system
Control System	◇Other Deep Sea or Comap or Controls Inc
Circuit Breaker	◇ABB 2, 3 and 4 pole thermo-magnetic
Automatic Transfer Switch	◇ATS- available in Nema 1 and 3R, 2 and 3 pole
Fuel Tank	◇Standard tank 8 hour run time single wall tank, optional UL142 double wall tank available in 8, 12, and 24hour sizes.

Others

IV. ENGINE DATA

Engine Model	2506D-E15TAG1	Engine power	458	kW
Aspiration	turbocharged, air to air charge cooling	Displacement	15.2	L
Type	Vertical in-line	Bore×Stroke	137×171	mm
No. of Cylinders	6	Compression Ratio	16:1	
Governor Type	Electronic	Rated Speed	1800	RPM

■ Fuel System

Prime power Fuel consumption	113	l/h	Standby power Fuel consumption	126	l/h
Fuel #	0# Diesel		Injection System	MEUI	

■ Lubrication System

Lub Oil Capacity	62	L	Lub Oil Consumption	0.13	l/h
Lub #	API CF-4 15W40		Max.Temperature	114	°C

■ Coolant System

Coolant Capacity	58	L	Max. Top Tank Temp.	107	°C
Std. Thermostat (Modulating) Range	88-98	°C	Fan Drive Type	Shaft drive	
Exhaust air volume	866	m ³ /min	Fan Power	15.5	kW

■ Air Intake System

Air intake capacity	39.3/41.5	m ³ /min	Air Pressure	2.5	kPa
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■ Exhaust System

Exhaust Gas Flow	104.5/112	m ³ /min	Max. Back Pressure	6.8	kPa
Exhaust Gas Temp.	≤550	°C	Exhaust pipe size	φ127	mm

■ Starting System

Start Mode	Electric start	Battery	120x2	Ah
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V. ALTERNATOR DATA

Alternator Model	SLG354C	Rate Power	475/594	kW/kVA
PF.	1	Voltage	480/277	V
Phase	2	Frequency	60	Hz
Connection	3P 4W / Y	Bearing	1	
Winding Pitch	2/3	Proteccion Class	IP21	
Insulation Class	H/H	Efficiency	94.20%	
Tel. Influence	TIF: <50	Voltage Regulation	±1.0%	
Harmonic Coefficient	THF: <2%	AVR	AS440	
Voltage Adjust Scope	≥±5%	Excitation System	SELF EXCITED	

VI. CONTROL SYSTEM DATA

MODEL DSE6020

■ Main feature

Electronic J1939 (CAN) and nonelectronic MPU and alternator sensing engine support for diesel, gas and petrol engines all in one variant. With a number of flexible inputs, outputs and protections, the modules can be easily adapted to suit a wide range of applications.



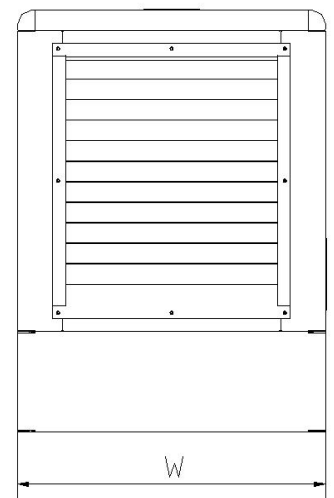
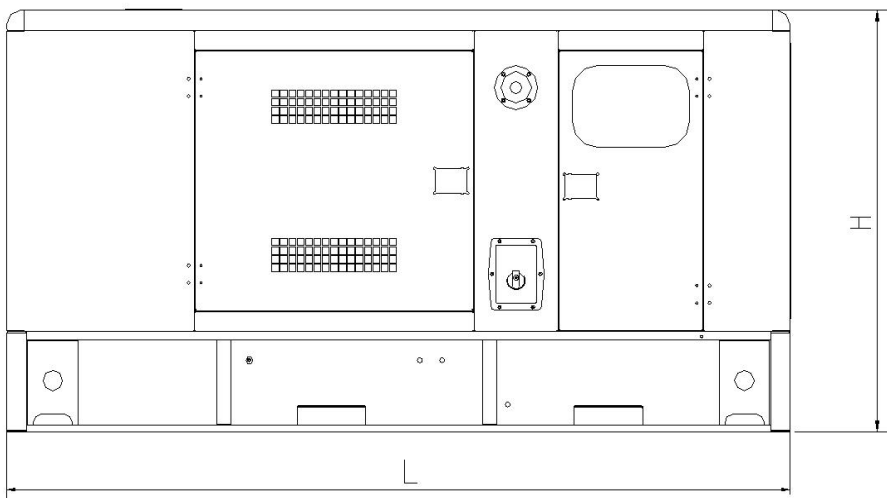
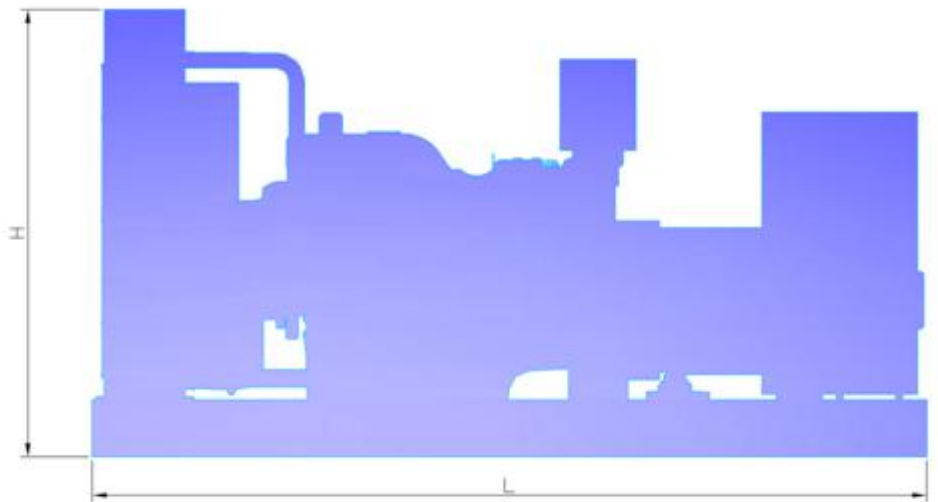
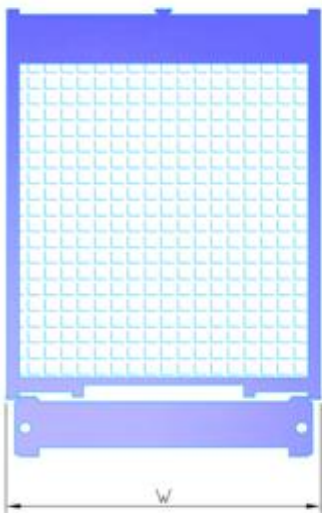
■ Key Function

- ▲ utility voltage sensing
- ▲ Generator/load power monitoring (kW, kV A, kV Ar, pf)
- ▲ Generator overload protection (kW)
- ▲ Efficient power save mode
- ▲ mains and generator closed via front panel
- ▲ 4 configurable DC outputs
- ▲ 4 configurable analog./digital inputs
- ▲ 6 configurable digital inputs
- ▲ Support for 0-10 V & 4-20 mA oil pressure sensors
- ▲ Configurable staged loading outputs
- ▲ CAN, MPU and alternator speed sensing in one variant
- ▲ 3 engine maintenance alarms
- ▲ engine speed protection
- ▲ Engine pre-heat
- ▲ Multiple date and time scheduler
- ▲ Engine idle control for starting & stopping
- ▲ Fuel pump control
- ▲ Battery voltage monitoring
- ▲ Start on low battery voltage
- ▲ Configurable remote start input
- ▲ alternative configuration
- ▲ alarm including common alarm, common electric and common shutdown
- ▲ LCD and LED alarm indication
- ▲ Configurable event log (50)
- ▲ Heated display option available

☆ *For more information, please visit the [official website](#)*

WARRANTY POLICY

1. Standard limited warranty for two year or 2000 hours (whichever comes first) from initial sales date to the end user. Refer to UQ-Power Diesel Generator Warranty Manual for more details.
2. Maintenance parts (filters, belts, hoses, batteries), improper operation and maintenance failures are excluded from the warranty policy.



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