

## Model: PE09



Sound attenuated enclosed unit shown



Open unit shown



### I . GENERAL DATA

Prime Power	kW/kVA	8	8	Ratings shown 1 phase- 3 phase available upon request
Standby Power	kW/kVA	9	9	
Frequency	Hz/rpm	60	1800	
Voltage	V	120	240	
Current	A		38	
Connection	/		2P3W	
Rated Power Factor	/		1	
Open Type (L×W×H)	mm	1200×750×1200		
Open Type(Weight)	kg	350		
Silent Type (L×W×H)	mm	1800×1000×1180		
Silent Type(Weight)	kg	750		

■Also available in the following voltages 480/277V, 240/120V, 208/120V

■All data based on ISO 3046, altitude 1000m (361ft), barometric pressure 100kPa (29.53inHg), air temperature 25°C (77°F), relative humidity 30%.

■Please contact 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 et
Alternator	YANAN brushless AC alternator
Radiator	40°C, fan protective shroud
Base frame	<500KW: base mounted fuel tank, fuel meter, rubber anti-vibration pads, battery holder ≥500KW: channel steel base frame
Circuit Breaker	Molded case circuit breaker(MCCB).
Control System	DEEP SEA 6020
Start Battery	Lead-acid battery, available for 6 times starts under standard condition; connection cables
Installation Accessories	Bellow, Elbow and flange, Exhaust silencer, etc.
Tool	YANAN standard
Documents	Mechanical drawing, electric drawing, operation & maintenance manual, certification etc.

## III . OPTIONAL CONFIGURATION

Engine accessories	◇Heavy-duty air filter ◇Coolant heater ◇Lube oil heater ◇Fuel and Water Separator
Alternator and accessories	◇Stamford ◇Leroy Somers ◇Marathon ◇Anti condensation heater ◇PMG kV ◇High voltage
Cooling system	◇50°C radiator ◇Heat exchanger + water cooling tower + External water circulation pumping system ◇Remote horizontal water tank system
Control System	◇AMF ◇Parallel ◇Practical type in low temperature environment ◇Control Screen Heater ◇Other (Comap, DEIF)
Circuit Breaker	◇3/4 poles ◇Fixed/handcart type ◇Electric mechanism
Automatic Transfer Switch	◇ATS cabinet
Start Battery	◇Nickel-cadmium battery ◇Maintenance-free battery ◇Power charger and selector ◇Charging current meter
External Fuel Tank	◇500L ◇1000L ◇1500L ◇2000L ◇2500L ◇3000L ◇4000L ◇5000L
Others	_____

#### IV . ENGINE DATA

Engine Model	403D-11G	Engine power	10.3	kW
Aspiration	Naturally aspirated	Displacement	1.131	L
Type	Vertical in-line	Bore×Stroke	77×81	mm
No. of Cylinders	3	Compression Ratio	23:1	
Governor Type	Mechanical	Rated Speed	1800	RPM

#### ■ Fuel System

Prime power Fuel consumption	3.15	l/h	Standby power Fuel consumption	3.76	l/h
Fuel #	0# Diesel		Injection System	Cassette type	

#### ■ Lubrication System

Luba Oil Capacity	4.9	L	lube Oil Consumption	0.014	l/h
lube #	API CF-4 15W40		Max.Temperature	125	°C

#### ■ Coolant System

Coolant Capacity	5.2	L	Max. Top Tank Temp.	105	°C
Std. Thermostat (Modulating) Range	75-87	°C	Fan Drive Type	Shaft drive	
Exhaust air volume	26.4	m3/min	Fan Power	0.2	kW

#### ■ Air Intake System

Air intake capacity	0.7	m3/min	Air Pressure	3	kPa
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#### ■ Exhaust System

Exhaust Gas Flow	2.21/2.4	m3/min	Max.Back Pressure	10.2	kPa
Exhaust Gas Temp.	≤515	°C	Exhaust pipe size	φ60	mm

#### ■ Starting System

Start Mode	Electric start	Battery	80x1	Ah
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## V. ALTERNATOR DATA

Alternator Model	SLG164B	Rate Power	11	kW/kVA
PF.	1	Voltage	120/240	V
Phase	2	Frequency	60	Hz
Connection	1P 3W	Bearing	Single Bearing	
Winding Pitch	2/3	Protection Class	IP21	
Insulation Class	H/H	Efficiency	72.10%	
Tel. Influence	TIF : <50	Voltage Regulation	±1.0%	
Harmonic Coefficient	THF : <2%	AVR	YN440	
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

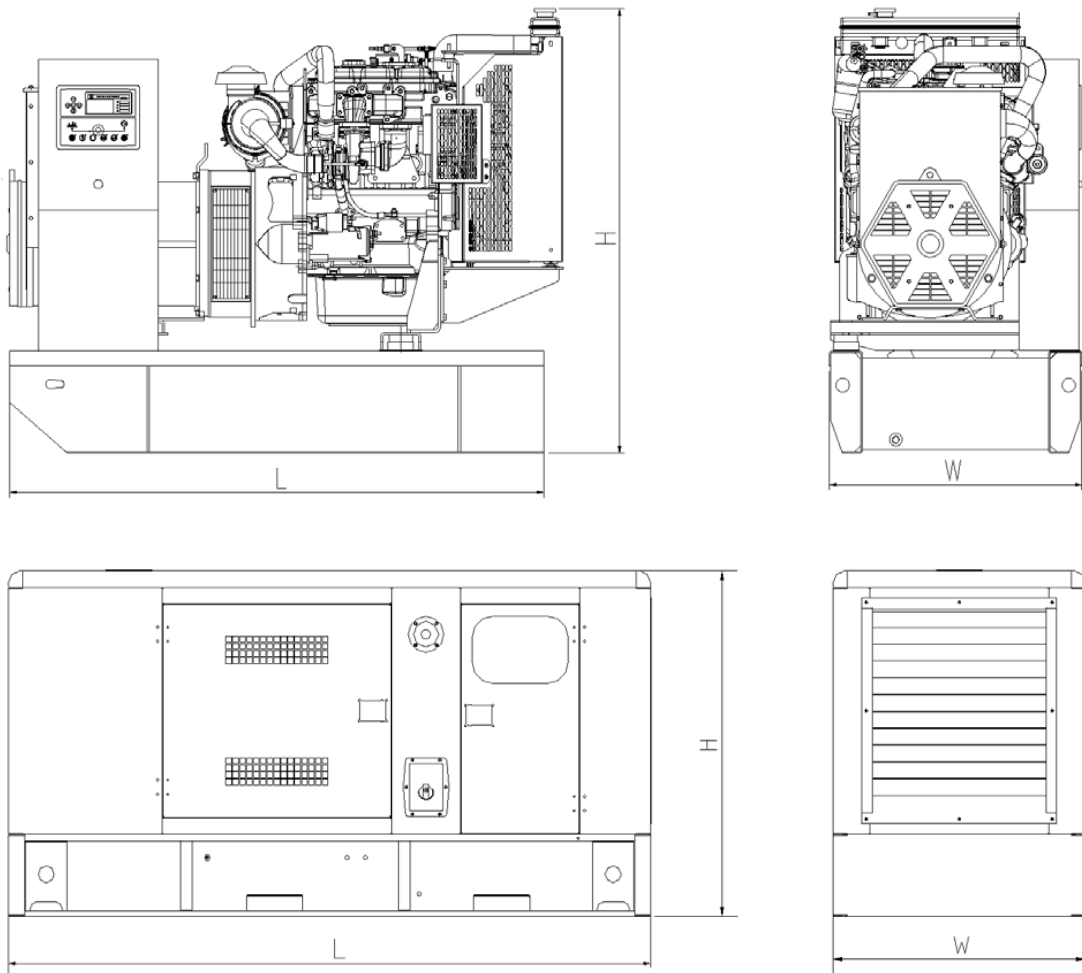
- ▲ utility voltage sensing
- ▲ Generator/load power monitoring (kW, kV A, kV Ar, pf)
- ▲ Generator overload protection (kW)
- ▲ Efficient power save mode
- ▲ mains and generator closed via front panel
- ▲ 4 configurable DC outputs
- ▲ 4 configurable analog./digital inputs
- ▲ 6 configurable digital 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*

### VII. WARRANTY POLICY

1. Warranty period is for two years or 2000 hours (whichever comes first) from initial start up date  
Refer to UQ-Power Diesel engine warranty manual for details.
2. Service/maintenance parts (belts, hoses, batteries, filters, ECT), improper operation, and maintenance failures are excluded from the warranty policy.

### VIII. DRAWING (for illustration purposes only)



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