



## ***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-fuel tank	Base mounted fuel tank (approx. 8 hour), anti-vibration pads, battery holder
Circuit Breaker	ABB-UL- Molded case circuit breaker(MCCB).
Control System	DEEP SEA 6020
Start Battery	Lead acid battery, connection cables. 3 amp battery charger standard
Installation Accessories	Flex exhaust, Elbow and flange, Exhaust silencer, etc.
Documents	UQ-Power-standard, Mechanical drawing, electric drawings. operation and maintenance manual

## ***III. OPTIONAL CONFIGURATION***

Engine accessories	◇ Heavy-duty air filter ◇ Coolant heater ◇ Lub oil heater ◇ Fuel and Water Separator
Cooling system	◇ 50°C radiator ◇ Heat exchanger + water cooling tower + External water circulation pumping system
Control System	◇ Optional control panels by, Comap, Controls Inc.
Circuit Breaker	◇ ABB 2,3 and 4 pole thermo-magnetic
Automatic Transfer Switch	◇ ATS-available in Nema 1, and 3r, 2,3 and 4 pole
External Fuel Tank	◇ Standard single wall, 8,12,24 hour, double wall 8,12,24 hour, UI142 tank available

all data is subject to change without notice.

#### **IV. ENGINE DATA**

Engine Model	1106D-E70TAG4	Engine power	190.4	kW
Aspiration	Turbocharged and air charge cooled	Displacement	7.01	L
Type	Direct injection diesel	Bore×Stroke	105×135	mm
No. of Cylinders	6	Compression Ratio	16.8:1	
Governor Type	Electronic	Rated Speed	1800	RPM

#### **■ Fuel System**

Prime power Fuel consumption	48.3	l/h	Standby power Fuel consumption	52.2	l/h
Fuel #	0# Diesel		Injection System	Electronic CRIN2	

#### **■ Lubrication System**

Lub Oil Capacity	17.5	L	Lub Oil Consumption	0.027	l/h
Lub #	API CF-4 15W40		Max. Temperature	125	°C

#### **■ Coolant System**

Coolant Capacity	21	L	Max. Top Tank Temp.	110	°C
Std. Thermostat (Modulating) Range	82-95	°C	Fan Drive Type	Shaft drive	
Exhaust air volume	249.6	m <sup>3</sup> /min	Fan Power	7	kW

#### **■ Air Intake System**

Air intake capacity	0.253	m <sup>3</sup> /min	Air Pressure	4	kPa
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#### **■ Exhaust System**

Exhaust Gas Flow	33.82/34.27	m <sup>3</sup> /min	Max. Back Pressure	15	kPa
Exhaust Gas Temp.	≤509	°C	Exhaust pipe size	φ125	mm

#### **■ Starting System**

Start Mode	Electric start	Battery	120x1	Ah
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## V. ALTERNATOR DATA

Alternator Model	SLG274G	Rate Power	185.1/231.4 kW/kVA
PF.	0.8	Voltage	480/277 V
Phase	3	Frequency	60 Hz
Connection	3PW / Y	Bearing	1
Winding Pitch	2/3	Proteccion Class	IP21
Insulation Class	H/H	Efficiency	92.70%
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

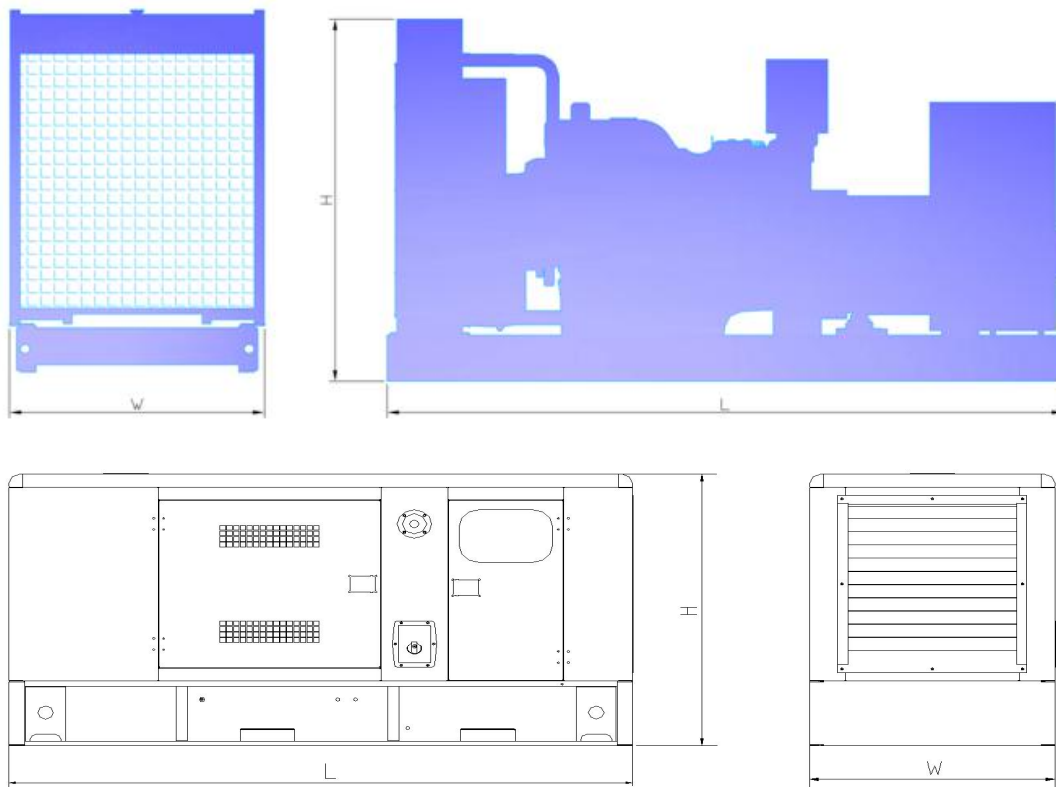
- ▲ utility voltage sensing
- ▲ Generator/load power monitoring (kW, kV A, kV Ar, pf)
- ▲ Generator overload protection (kW)
- ▲ Efficient power save mode
- ▲ mains and generator closed via front panel
- ▲ 4 configurable DC outputs
- ▲ 4 configurable analog./digital inputs
- ▲ 6 configurable digital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

## VII. WARRANTY POLICY

1. Standard warranty valid for one year 1000 hours (whichever comes first) from initial sales date to the end user. Refer to UQ-Power Diesel engine Warranty Manual for more details.
2. Maintenance parts (filters belts, hoses, batteries, ECT) improper operation and maintenance failures are excluded from the warranty policy.

Open unit size	2450x950x1800 mm
Weight	1650KG
Enclosed (Sound) unit size	2800x1100x1800
Weight	2200KG



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