

TECHNICAL SPECIFICATIONS

Products comply with IEC60034-1 (International Electrotechnical Commission standard), GB755 (Chinese standard)

GENERAL DATA

Model	<i>YLGf-800SCS</i>	Wiring Method	<i>three-phase four-wire</i>
Power (KW)	<i>800/880KW</i>	Voltage regulation range	$\leq +0.5\%$
Capacity(KVA)	<i>1000/1100KVA</i>	Steady-state voltage adjustment rate	$\leq +0.1\%$
Voltage (V)	<i>230/400V</i>	Steady-state frequency adjustment range	$\leq +20\%$
Frequency(Hz)	<i>50HZ</i>	Sudden load voltage adjustment	$\leq +8\%$
Current output (A)	<i>30.4</i>	Sudden load adjustment time	$\leq 6S$
Power factor	<i>0.8</i>	Abrupt load frequency deviation	$\leq +10\%$
Unit size (mm)	<i>5200*2200*2500 MM</i>	Unit net weight (kg)	<i>7010KG</i>

ENGINE PARAMETERS

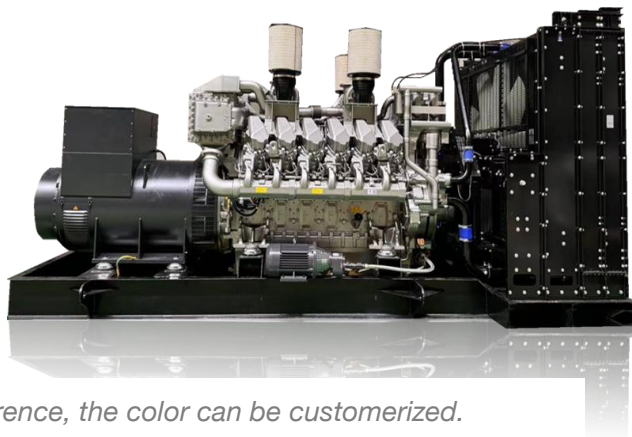
Brand	<i>SDEC POWER</i>	Rated speed	<i>1500r/min</i>
Model	<i>6KTAA25-G321</i>	Fuel specification, grade	<i>International 0# diesel</i>
Engine power (KW)	<i>880/968KW</i>	Lubricating oil specifications, grades	<i>CF-40 15W</i>
Fuel system	<i>close coupled pump</i>	Displacement	<i>25.2 L</i>
Cylinders	<i>6</i>	Maximum lubricating oil temperature	<i>105℃</i>
Bore * Stroke(mm)	<i>170*185</i>	Total lubricating oil capacity	<i>75 L</i>
Compress Ratio	<i>14.5:1</i>	Maximum exhaust temperature	<i>450℃</i>
Aspiration	<i>Natural aspiration</i>	Intake resistance	<i>10Kpa</i>
Speed regulating system	<i>Electronic speed</i>	Starting voltage	<i>12V</i>
Fuel consumption rate	<i>-</i>	Full load fuel consumption	<i>212.8 L/h</i>

ALTERNATOR PARAMETERS

Manufacture factory	<i>Quanyi(First All)</i>	Model	<i>QYK404C2</i>
Generator power(KW)	<i>800/880KW</i>	Alternator capacity(KVA)	<i>1000/1100KVA</i>
Exciting mode	<i>Brushless</i>	Elevation	$\leq 1000m$
Voltage regulating mode	<i>AVR</i>	Temperature	$\leq 40℃$
Protection Class	<i>IP23</i>	Insulation/temperature rise rating	<i>H/H</i>
Generator efficiency	<i>93.20%</i>	Surge capability	<i>1.5 times 2 minutes</i>
Cooling mode	<i>Self-cooled</i>	short-circuit capacity	<i>3 times 2 seconds</i>
Rotor type	<i>salient pole type</i>	Voice Coil Material	<i>100% copper</i>

CONTROLLER		
Model	<i>SmartGen</i>	Languages: <i>Chinese, English, Russian, Spanish</i>
1. The generator automatically starts/stops		
2. Data measurement, alarm protection and "three remote" function		
3. Over voltage/under voltage/over frequency/under frequency/over current/over power protection function		
4. USB, RS485 interface can adjust and monitor all parameters		

CONFUGURATION LIST						
NO.	Name	product name	Brand	Model	units	Qty
1	1 Unit Configuration	Engine	SDEC POWER	6KTAA25-G321	pcs	1
2		Alternator	Quanyi First all	QYK404C2	pcs	1
3		Controler	SmartGen	HGM6120CAN	pcs	1
4		Switch	DELIXI	Standard		
5		ATS switch	Standard	Standard	pcs	1
6		Battery	Standard	Standard	pcs	1
7		silencer	Standard	Standard	pcs	1
8		bellows	Standard	Standard	pcs	1
9		Radiator	Standard	Standard	pcs	1
10		Silent Canopy	Standard	Standard	pcs	1
11		Testing	Standard	Standard	pcs	1



Photos only for reference, the color can be customized.



6KTAA25-G321

◎ POWER RATING

Engine Speed	Type of Operation	Engine	Genset	
r/min		kW	kW	kVA
1500	Prime Power	880	800	1000
	Standby Power	968	880	1100

-. The engine performance is as per GB/T2820.

-. Ratings are based on GB/T1147.1.

---Prime power is available for an unlimited number of hours per year in a variable load application. The permissible average power output over 24 hours of operation shall not exceed 80% of the prime power rating.

---Standby power is available in the event of a utility power outage or under test conditions for up to 200 hours of operation per year.

The permissible average power output over 24 hours of operation shall not exceed 80% of the standby power rating.

◎ SPECIFICATIONS

◎ FUEL CONSUMPTION

○ Engine Model	6KTAA25-G321	○ Power	L/h
○ Engine Type	In-line,4 strokes, water-cooled	25%	60.1
	4 valves, Turbo charged	50%	109.4
	air-to-air intercooled	75%	158.8
○ Combustion type	Direct injection	100%	212.8
○ Cylinder Type	Dry liner	110%	237.0
○ Number of cylinders	6		
○ Bore × stroke	170× 185 mm		

◎ FUEL SYSTEM

○ Displacement	25.2 L	○ Injection pump	Common Rail
○ Compression ratio	14.5 : 1	○ Governor	Electric type
○ Firing order	1-5-3-6-2-4	○ Feed pump	Electric type
○ Injection timing	Electric type	○ Injection nozzle	Multi hole type
○ Dry weight	2850 kg	○ Opening pressure	Electric type
○ Dimension(L×W×H)	2302 ×1544 ×1598mm	○ Fuel filter	Full flow, cartridge type
○ Rotation	CCW viewed from flywheel	○ Used fuel	Diesel fuel oil
○ Fly wheel housing	SAE NO.0		
○ Fly wheel	SAE NO.18		

◎ MECHANISM

◎ LUBRICATION SYSTEM

○ Type	Over head valve	○ Lub. Method	Fully forced pressure feed type
○ Number of valve	Intake 2, exhaust 2 per cylinder	○ Oil pump	Gear type driven by crankshaft
○ Valve lashes at cold	Intake 0.35mm	○ Oil filter	Full flow, cartridge type
	Exhaust 0.60mm	○ Oil pan capacity	High/ Low level 75L/45L

◎ VALVE TIMING

	Opening	Close
○ Intake valve	25° BTDC	57° ABDC
○ Exhaust valve	66° BBDC	16° ATDC

○ Angularity limit	Front down 12°
	Front up 15°
	Side to side 35°

○ Lub. Oil	Refer to Operation Manual
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◎ COOLING SYSTEM

○ Cooling method	Fresh water forced circulation
○ Water capacity	55 L(engine only)
○ Water pump	Centrifugal type driven by belt
○ Water pump Capacity	880 L/min at 1500r/min
○ Thermostat	Wax–pellet type
	Opening temp. 77°C
	Full open temp. 90°C
○ Cooling fan	Blower type, plastic
	1330 mm diameter, 8 blades
○ Max. coolant temperature at standby / prime power	

102/98°C

◎ ENGINEERING DATA

○ Heat rejection to coolant	89.6 kcal/sec (1500r/min)
○ Heat rejection to CAC	55.7 kcal/sec (1500r/min)
○ Engine waste heat	118.9m3/min (1500r/min)
○ Exhaust gas flow	160.3m3/min (1500r/min)
○ Exhaust gas temp.	600 °C
○ Max. permissible restrictions	
Intake system	3 kPa initial / 6 kPa final
Exhaust system	10 kPa max.
○ Intercooler resistance limit	10 kPa

◎ ELECTRICAL SYSTEM

○ Charging generator	28V×55A
○ Voltage regulator	Built-in type IC regulator
○ Starting motor	24V×9kW
○ Battery Voltage	24V
○ Battery Capacity	200 AH