

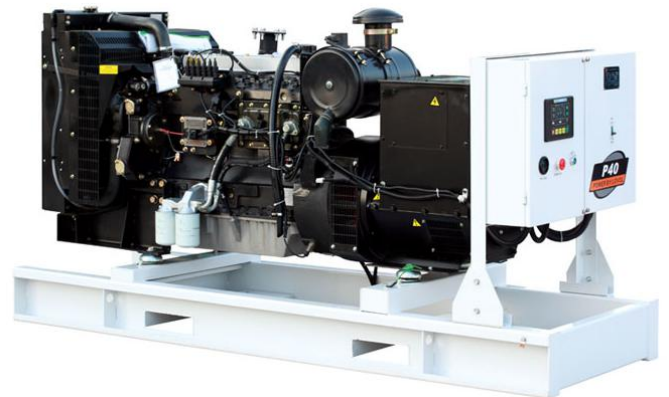
### YANAN DIESEL GENERATOR Powered by LOVOL Model: YNS165P



\*Drawing above for illustration purposes only

#### I . GENERAL DATA

Prime Power	kW/kVA	120	150
Standby Power	kW/kVA	132	165
Frequency	Hz/rpm	50	1500
Voltage	V	400	230
Current	A	217	
Connection	/	3P 4W / Y	
Rated Power Factor	/	0.8	
Open Type (L×W×H)	mm	2550x1000x1620	
Open Type(Weight)	kg	1620	
Silent Type (L×W×H)	mm	3000x1200x1800	
Silent Type(Weight)	kg	2150	



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

■ All datas based on ISO 3046, altitude 100m (328ft), barometric pressure 100kPa (29.53inHg), air temperature 25°C (77°F), relative humidity 30%.

■ Please contact with YANAN engineer for correct generator capacity selection when the load application can't meet with the standard reference.

■ YANAN diesel generators comply with standards: ISO8528, ISO14000, ISO3046, GB755, BS5000, VDE0530, IEC34-1

## II. STANDARD CONFIGURATION

Engine	LOVOL, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.
Alternator	YNNAN brushless AC alternator
Radiator	50°C, fan protective shroud
Base frame	≤550KW: base mounted fuel tank, anti-vibration pads, battery holder
	>550KW: channel steel base frame, anti-vibration pads, battery holder
Circuit Breaker	≤1250A : Molded case circuit breaker(MCCB)
Control System	DEEP SEA 6120
Start Battery	Dry charged battery , available for 6 times starts under standard condition; connection cables.
Installation Accessories	Bellow, Elbow and flange, Exhaust silencer, etc.
Tool	YANAN standard
Documents	Electric drawing, operation & maintenance manual, certification etc.

## III. OPTIONAL CONFIGURATION

Engine Accessories	◇Heavy-duty air filter ◇Coolant heater ◇Lub oil heater ◇Fuel and Water Separator
Alternator And Accessories	◇Stamford ◇Leroy Somer ◇Marathon ◇Anti condensation heater ◇PMG
	◇High voltage _____kV
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 Swtich	◇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	1106C-P6TAG2	Engine power	151	kW
Aspiration	Turbocharged air-to-air charge cooled	Displacement	5.98	L
Type	In-line	Bore×Stroke	100×127	mm
No. of Cylinders	6	Compression Ratio	17.5:1	
Governor Type	Electronic Governor	Rated Speed	1500	RPM

### ■ Fuel System

Prime Power Fuel Consumption	33.5	L/h	Standby Power Fuel Consumption	36.9	L/h
Fuel specification:	Sumer: GB 252-2000 top ASTM D975 No.2-D or BS2869 1998 Class A1, A2		Injection System	In-line Pump	

### ■ Lubrication System

Lub Oil Capacity	18.3	L			
Lub #	API CF-4 15W40		Max.Temperature	≤126	°C

### ■ Coolant System

Coolant Capacity	27.9	L	Max. Top Tank Temp.	102	°C
Std. Thermostat (Modulating) Range	82~90	°C	Fan Drive Method	Shaft drive	

### ■ Air Intake System

Combustion Air Flow	640	kg/h	Maximum Air Intake Restriction	≤5.0	kPa
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### ■ Exhaust System

Exhaust Gas Flow	667.7	kg/h	Max.Back Pressure	≤15.0	kPa
Exhaust Gas Temp	≤455	°C	Exhaust Pipe Size	φ101	mm

### ■ Starting System

Start Mode	DC12V Electric start	Battery	150	Ah
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### V. ALTERNATOR DATA

Alternator Model	SLG274F	Rate Power	128/160	kW/kVA
PF.	0.8	Voltage	400/230	V
Phase	3	Frequency	50	Hz
Connection	3P 4W/Y	Bearing	1	
Winding Pitch	2/3	Proteccion Class	IP21	
Insulation Class	H	Efficiency	92.3%	
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 DSE6110/20 MKIII

#### ■ Main feature

The DSE6110 MKII Auto Start Control Module and the DSE6120 MKII Auto Mains (Utility) Failure Control Module are suitable for a wide variety of single gen-set applications.

Monitoring an extensive number of engine parameters, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs and remote PC

The DSE6120 MKIII will also monitor the mains (utility) supply. The modules include USB connection and dedicated DSENet® terminals for system expansion.



- ▲ 4-line back-lit LCD text display
- ▲ Multiple display languages
- ▲ Five-key menu navigation
- ▲ LCD alarm indication
- ▲ Customisable power-up text and screen images.
- ▲ DSENet® expansion compatibility
- ▲ Data logging facility
- ▲ Internal PLC editor
- ▲ Protections disable feature
- ▲ Fully configurable via PC using USB communications
- ▲ Front panel configuration with PIN protection
- ▲ Breaker control via fascia buttons
- ▲ Fuel and start outputs configurable when using CAN
- ▲ 6 configurable DC outputs
- ▲ 4 configurable analogue/digital input for monitoring and maintenance periods
- ▲ Support for 0 V to 10 V & 4 mA to 20 mA sensors
- ▲ 8 configurable digital inputs
- ▲ CAN, MPU and alternator frequency displayed simultaneously for full visibility
- ▲ Speed sensing in one variant
- ▲ Real time clock
- ▲ Manual and automatic fuel pump control
- ▲ Engine pre-heat and post-heat function to meet user specific application requirements.
- ▲ Engine run-time scheduler
- ▲ Automatically transfers between mains (utility) and generator (DSE6120 MKIII only) for convenience
- ▲ Hours counter provides accurate information
- ▲ User-friendly set-up and button layout for ease of use
- ▲ Multiple parameters are monitored & frequency displayed simultaneously for full visibility
- ▲ The module can be configured to suit a wide range of applications for user flexibility
- ▲ PLC editor allows user configurable functions
- ▲ Mains (utility) current and power

- ▲Power save mode
- ▲3-phase generator sensing and protection
- ▲3-phase mains (utility) sensing and protection (DSE6120 MKIII only)
- ▲Automatic load transfer control (DSE6120 MKIII only)
- ▲Generator current and power monitoring (kW, kvar, kVA, pf)
- ▲Engine idle control for starting & stop monitoring (kW, kvar, kVA, pf)
- ▲Fuel level alarms (DSE6120 MKIII only)
- ▲3 configurable maintenance alarms
- ▲Compatible with a wide range of CAN engines, including Tier 4 engine support
- ▲Uses DSE Configuration Suite PC Software for simplified configuration
- ▲Licence-free PC software
- ▲IP65 rating (with optional gasket) offers increased resistance to water ingress
- ▲kW overload alarm
- ▲Over current protection
- ▲Configurable CAN read&transmitted information.
- ▲1 alternative configuration

### VII. WARRANTY POLICY

1. Guarantee for one year or 1000 hours (accord to whichever reach first) from ex-factory date. Refer to 《YANAN Diesel Generator Warranty Manual》 for more details.
2. Wearing parts( filters), incorrect man-made operation, maintenance failures are excluded from the warranty policy

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

