

PI 68Y

Industrial Generating Set

MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 68Y	1500 / 50	400 /230 V	62.5kVA /50kWe	68 kVA / 54.4 kWe

Full rated power available upto 100 meter elevation at ambient of 27degC, for other temperature and altitude limits please consult application team.

ENGINE SPECIFICATIONS			
Rated Output (PRP) (1)	60 kW _m		
Rated Output (ESP) (2)	66 kW _m		
Engine Make & Model	Yuchai YC4D100Z-D20		
No. of Cylinders	4 Vertical in-line		
Cycle	4 Strokes		
Aspiration	Turbocharged		
Cooling Method	Water		
Governing Type	Electronic governor		
Governing Class	ISO 8528 G2		
Compression Ratio	17.5:1		
Displacement	4.21 L		
BorexStroke (mm)	108×115mm		
Battery and Charger Alternator	12V/120Ah×2		
AIR SYSTEM			
Air Filter Type	Dry-type, filter cartri		
Combustion Air Flow (PRP)	3.46 m ³ /min		
Combustion Air Flow (ESP)	3.51 m ³ /min		
Radiator Air Flow	91 m³/min		
COOLING SYSTEM			
Total Coolant Capacity (L)	30 L		
Water Pump Type	Centrifugal Eng-Driven		
Radiator Fan Load	2.7 kW		
Heat Radiation to Room (PRP)	2.7 kW		
Heat Radiation to Room (ESP)	3.3 kW		
LUBRICATION SYSTEM			
Oil Filter	TBA		
Total Oil Capacity	14L		
Oil Pan	12.1 L		
Oil Type 15W-40 in summer; 10W-30 or other environmentally suitable diesel engine oils with the quality grade not lower than Grade CH-4 as provided in GB 11122-2006 in winte			

UEL SYSTEM		
Fuel Filter: TBA		
Recommended Fuel	Class A2 Diesel	
Fuel Consumption Standby	16.5 L/hr	
Fuel Consumption 100% PRP	14.7 L/hr	
Fuel Consumption 75% PRP	10.9 L/hr	
Fuel Consumption 50% PRP	7.6 L/hr	
XHAUST SYSTEM		
Muffler Type	Residential grade	
Max. Back Pressure	10 kPa	
Exhaust Gas Flow (PRP/ESP)	11.3 / 12.6 m ³ /min	
Exhaust Gas Temperature(PRP/ESP)	550°C/600°C	
LTERNATOR SPECIFICAT	TONS	
Rated Output (Prime) (1)	62.5 kVA	
Rated Output (Standby) (2)	68.8 kVA	
Alternator Make & Model	Stamford S1L2-Y1	
Number of Poles	4	
Number of Winding Leads	12	
Type of Bearing	Single	
Insulation Class / Temp Rise	H/H	
Efficiency @ Rated Voltage	89.90%	
Ingress Protection Rating	IP 23	
Excitation System	Self-Excited	
AVR Model AS540		
LTERNATOR OPERATING	DATA	
Overspeed	2250 r.p.m	

Radio Interface

Cooling Air Flow

⁽²⁾ **EMERGENCY STANDBY POWER RATING (ESP)**: ESP is defined as the maximum power available during a variable electrical power sequence, under the stated operation condition, for which a generating set is capable of delivering power in the event of a utility power outage or under test condition for up to 200 Hours of operation per year. The permissible average output over 24 hour of operation shall not exceed 70 % of the ESP power rating noting that no over load is permitted.



EN 61000-6-2 & EN 61000-6-4

0.216 m³/sec

⁽¹⁾ PRIME POWER RATING (PRP): PRP) is defined as the maximum power which a Generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year. The permissible average power output over 24 hours shall not exceed 70% of PRP unless otherwise agreed by RIC engine manufacturer. An overload capability of 10% of 100% of the prime rated electrical power is permitted for emergency use for a period of 1 hour within 12 hours of operation



PI 68Y

Industrial Generating Set



CONTROLLER SPECIFICATIONS Controller Make & Model DeepSea 4520 MKII Operation Mode Autostart/Manual/AMF Graphic Back-lit LCD Display Ingress Protection Rating **IP65** Binary Inputs/Outputs 4/4 3 **Analog Inputs** Measurement Vac, A, Hz, kVA, kW, Vdc **Event Log** Alarms log, Hrs log Communication **USB**

ENCLOSURE SPECIFICATIONS					
Enclosure Type	c & Weather Proof				
Anticorrosive Protection					
Polyester Powder Coated Galvanized Sheet					
Ingress Protection F	IP22				
Lifting	Lifting ISO Star				
Emergency External E		mergency Push Botton			
Canopy RAL Color	RAL 2000				
Baseframe RAL Col	RAL 9011				
Noise Pressure leve	74 dB(A)				

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg) Appx	Wet Weight (kg) Appx
OPEN	2000	850	1400	173	1150	1200
CLOSE	3045	1225	1705	245	1650	1690

Note: The following dimensions are for preliminary guidance. For more detailed and accurate dimensions, please refer to the General Arrangement Drawing (GAD).

STANDARD MECHANICAL FEATURES

Genset design provides a low noise level with an optimized performance of the ventilation and exhaust systems at 50 °C ambient temperature.

Robust structure design of Enclosure and Baseframe.

Hevy duty lifting lugs.

Multi doors for easy access & maintenance.

Ingress Protection Rating according to BS EN 60529.

Heavy Duty Baseframe with built-in tank & forklift pockets.

Residential Grade Muffler with rain cap.

STANDARD ELECTRICAL FEATURES

An advance Control system is designed to provide a comperhensive protection and to monitor the parameters of generating set.

MCCB power circuit breaker.

Battery with charging alternator, cables, and tray.

Sealed harness & high resistant electrical connections.

Fast and accurate protection response.

Generating Set remote start function.

Numeric display with LED. Various languages capable.

OPTIONAL FEATURES

Advanced Controllers are available on request.

4 poles manual / Motorized Circuit breaker

Pre heating system

Static Battery Charger

Critical grade muffler

Electronic governor

Remote Annunciator

Application

Infrastructure, Industrial , Residential , Telecom, Defense , Mining , Aggriculture





