

PI 1875Y

POWERED BY



PRECIS	Industria		Generating Set		YC DIE		
MODEL	rpm / Hz	VOLTAGE	PRIME ⁽¹	1)	STAND	BY ⁽²⁾	
PI 1875Y	1800 / 60	480 /277 V	1688kVA /1350kWe		1875kVA /1500kWe		
ull rated power ava eam.	ilable upto 100 meter	elevation at ambient of 27degC,	, for other temperature and al	titude limits pl	ease consult	application	
ENGINE SPEC	CIFICATIONS		FUEL SYSTEM				
Rated Output (PRP) ⁽¹⁾		1429 kW _m	Fuel Filter:				
Rated Output (ESP) ⁽²⁾		1581 kW _m	Recommended Fuel		Class A	A2 Diesel	
Engine Make & Model		YC16VTD2270-D32	Fuel Consumption Standby		419.3L/hr		
No. of Cylinders		16 V, 90°	Fuel Consumption 100% PRP		375.9 L/hr		
Cycle		4 Strokes	Fuel Consumption 75% PRP		281.8L/hr		
Aspiration		Turbocharged, water- air intercooled	Fuel Consumption 50% PRP		196.3 L/	196.3 L/hr	
Cooling Method		Water	EXHAUST SYSTEM				
Governing Type		Electronic	Muffler Type		Residential grade		
Governing Class		ISO 8528 G3	Max. Back Pressure		10 kPa		
Compression Ratio		14:01	Exhaust Gas Flow (PRP/ESP)		287.9/3	309.5 m ³ /ı	
Displacement		52.26 L	Exhaust Gas Temperature(PRP/ESP)		≤550 ⁰ C	C/≤550ºC	
BorexStroke (mm)		152×180 mm	ALTERNATOR SPECIFICATIO		IONS		
Battery and Ch	arger Alternator	24V	Rated Output (Prime) (1)		2119k∖	/A	
AIR SYSTEM			Rated Output (Standby) (2)		2200 kVA		
Air Filter Type		Dry paper element	Alternator Make & Model			mford 1D-E41	
Combustion A	ir Flow (PRP)	131.6 m ³ /min	Number of Poles			4	
Combustion Air Flow (ESP)		141.0m ³ /min	Number of Winding Leads		6 Lead s op	td/ 12 lea tional	
Radiator Air Fl	low	2888 m³/min	Type of Bearing		S	ingle	
	STEM		Insulation Class / Temp Rise		I	H/H	
Total Coolant	Capacity (L)	554 L	Efficiency @ Rated Voltage		96	.00%	
Water Pump T	уре	Centrifugal Eng-Driven	Ingress Protection Rating		IP 23		
Radiator Fan I	_oad	89 kW	Excitation System		PMG		
Heat Radiation to Room (PRP)		86 kW	AVR Model		M	X341	
Heat Radiation to Room (ESP)		124 kW	ALTERNATOR OPERATING		DATA		
	N SYSTEM		Overspeed		2250 r.	p.m	
Oil Filter		ТВА	Voltage Regulation		± 1%		
Total Oil Capa	icity	(310) L	Waveform distortion NO LOAD < 1.5% NOI BALANCED LINEAR				
Oil Pan low level/ high level		176/280 L	Radio Interface BS EN 61000-6-2 & E 4,VDE 0875G, V				
Oil Type API CH4/		CI4; SAE 15W-40	Cooling Air Flow 3.02m ³ /s				

⁽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

(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.





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Industrial Generating Set



CONTROLLER SPECIFICATIONS					
Controller Make & N	DeepSea 6120 MKII				
Operation Mode	MRS / AMF (optional)				
Display Graphic Back		-lit LCD (128x64) pixles			
Ingress Protection F	IP65				
Binary Inputs/Outpu	8 / 6				
Analog Inputs	4				
Measurement	Vac, A, Hz, kVA, kW, Vdc				
Event Log	Alarms log, Hrs log				
Communication	USB				

ENCLOSURE SPECIFICATIONS

Enclosure Type	Acoustic & Weather Proof				
Anticorrosive Protection					
Polyester Powder Coated Galvanized Sheet					
Ingress Protection F	IP22				
Lifting	ISO Standard Lifting				
Emergency External E		mergency Push Botton			
Canopy RAL Color	RAL 9010				
Baseframe RAL Col	RAL 9011				
Noise Pressure leve	85 dB(A)				

STANDARD ELECTRICAL FEATURES

Battery with charging alternator, cables, and tray.

Fast and accurate protection response.

Generating Set remote start function.

Sealed harness & high resistant electrical connections.

Numeric display with LED. Various languages capable.

الصناعات الوقيقة

PRECISION INDUSTRIES

An advance Control system is designed to provide a

comperhensive protection and to monitor the parameters of

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg) Appx	Wet Weight (kg) Appx
OPEN	5600	2610	2475	N/A	12200	12500
CLOSE	30 FEET HC CONTAINER		N/A	15350	15650	

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

generating set.

MCCB power circuit breaker.

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.

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

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