



# PRECISION INDUSTRIES®

PI 275P/50Hz THE POWER OF DUBAI  
PI 313P/60Hz

Output Power Ratings			Prime*		Standby**	
Rpm	Frequency	Voltage	Kva	kW	Kva	kW
1500	50Hz	400	250	200	275	220
1800	60Hz	480	281	227	313	250

The above KW ratings are at 0.8 pf  
Guaranteed within conditions equivalent to those specified in ISO 8528-1, ISO 3046-1 and BS 5514-1.

Engine Technical Data	
Engine Make and Model	Perkins 1506A-E88TAG3
Cylinders	6 Vertical In-Line
Aspiration	Turbocharged Air-to-Air Charge Cooled
Combustion System	Direct Injection
Displacement	8.7liters
Governor	Electronic
Emissions Regulations	EU Stage II
Electrical Starting System	24 V Starter Motor And 24 V 45 Amp Alternator With DC Out Put

Air Systems	
Air Filter Type	Dry Paper Element (Replaceable)
Combustion Air Flow m <sup>3</sup> /min (cfm)	Prime Standby
	50 Hz 14.1 (497) 15 (529)
	60 Hz 18.6 (656.5) 19.8 (698.9)
Maximum Air Filter Intake Restriction	6.22kPa TBD

Fuel System	
Fuel Filter Type	Spin-On With Pre-Filter (Replaceable)
Recommended Fuel	Class A2 Diesel
Fuel Consumption l/hr (US gal/hr)	Engine speed Standby Prime Power %75 of Prime Power %50 of Prime Power
	1500 rpm 61 (16.1) 56 (14.7) 42 (11.1) 29 (7.6)
	1800 rpm 70 (18.4) 63 (16.6) 48 (12.6) 33 (8.72)
Fuel Tank Capacity: Open / Close	460 L / 582 L

Lubrication System	
Lube oil	API-CH4/CG4 or ACEA E3 SAE 15W-40 (-10 C to 50 C Ambient Temperature)
Lube Oil Capacity	26.4 L
Oil Pan	22.7 L
Oil Filter Type	Full Flow Spin-on (Replaceable)
Oil Cooling Method	Water

Cooling System	
Coolant Capacity	37.2 L
Cooling System	Mounted Radiator, Water Cooled
Cooling Fan Air Flow m <sup>3</sup> /min (cfm)	370 (12987)
Heat Radiation to Room	Prime Standby
	50 Hz 31kW 35kW
	60 Hz 46 55

Exhaust System		
Silencer	Grade	Industrial
	Size	4"
	Qty	1
Exhaust Gas Flow m <sup>3</sup> /min (cfm)	Prime	-
	Standby	1571.50 44.5)
Maximum allowable backpressure	10.7 kPa	-
Exhaust Gas Maximum Temp	Prime	50 Hz -
	Standby	60 Hz -
		528°C

Alternator Technical Data		Meccalte							
Model Number		ECO 38-1LN/4							
No. of Poles		4							
Number of Terminals (Leads)		12							
A.V.R. & Excitation		DSR							
Regulation		± %1.0							
Ingress Protection		IP-21							
Insulation Class		H							
TIF		< 40							
THD at Full Load %		2.1/2							
THD at No Load %		3.1/2.9							
Cooling Air Flow- @ 50 Hz m <sup>3</sup> /min (cfm)		1130.06) 32)							
Cooling Air Flow- @ 60 Hz m <sup>3</sup> /min (cfm)		1377.27) 39)							
Output Voltages		50Hz				60Hz			
	V	380	400	415	440	380	416	440	480
kVA		250	250	250	230	-	-	-	-
Kw		200	200	200	184	-	-	-	-



Made in UAE



ISO 9001 : 2008 Certified



# THE POWER OF DUBAI

## PI 275P/50Hz

Controller Features	ComAp – AMF9 / DSE (Optional)
Controller Make and Model	Auto Mains Failure (AMF) applications including remote communication , User configuration and complete gen-set monitoring and protection. Ready for generators with 3 ph 4 wires / 3 ph 3 wires / Mono ph
Engine Protections	<ul style="list-style-type: none"> <li>Oil pressure</li> <li>Coolant temperature</li> <li>Fuel level (Optional)</li> <li>Coolant level (Optional)</li> </ul>
Generator Protections	<ul style="list-style-type: none"> <li>Over / Under voltage</li> <li>Over/Under frequency</li> <li>Phases Sequence</li> <li>Over current</li> <li>Charging Alternator Fault</li> </ul>
Inputs and Outputs	<ul style="list-style-type: none"> <li>3 No's Configurable analog inputs</li> <li>4 No's binary inputs</li> <li>6 No's binary outputs</li> <li>D + Pre-Excitation terminal</li> </ul>
Event and Performance Log	<ul style="list-style-type: none"> <li>Gen-set text alarm log</li> <li>For More Features We Can Use Higher Controller</li> <li>Engine hours history log</li> </ul>

Genset Enclosure Specification (optional)	
Enclosure Type	Acoustic and Weather Proof
Anticorrosive Protection	Polyester Powder Coated Galvanized Sheet
Access Doors	6
Drainage	Fuel &Water Drainage Provision
Transportation	Tested Single Point Lifting Facility & Forklift Pockets
Noise level (at free-field conditions)	73 dBA @ 7 meter
Water Fill	Radiator Water Filling Provision
Cable Access	Cable Inlet and Outlet provision
Emergency Stop	External Emergency Push Button
Canopy RAL Color	RAL 2000
Chassis RAL Color	RAL 9011

Shipping Data				
Type	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
Open	3013	1100	1890	1998
Enclosed	4322	1463	2080	2932

### Notes:

\*Prime power rating of the generating set is where a variable load and unlimited hours usage are applied on the generating set with an average load factor of 80% of the prime rating over each 24 hour period. Noting that a 10% overload is available for 1 hour in every 12 hours operation

\*\*Standby power rating of the generating set is where a variable load limited to an annual usage upto 500 hours is applied, with 300 hours of which may be continuous running. Noting that no overload is permitted

All generators carry a one year or (1000) hours' manufacturer's warranty

In line with our policy of continuous development, PI reserves the right to change specification without notice

# PRECISION INDUSTRIES®

Dubai | Abu Dhabi | Qatar | Oman | CIS Countries

Head Office Dubai | Tel: +971 4 338 4033 | Fax: +971 4 338 3997  
 Abu Dhabi | Tel: +971 2 645 0107 | Fax: +971 2 645 0167  
 Qatar | sales.qatar@pi-dubai.com  
 Oman | sales.oman@pi-dubai.com

info@pi-dubai.com | www.pi-dubai.com

GPS: 25° 7' 50" N , 55° 14' 53" E



GENSETS