



## **DEM 70P**

DEMMANS
DIESEL GENERATING SET
TECHNICAL SPECIFICATIONS











ELECTRICAL			
FREQUENCY	VOLTAGE	PRIME	STAND-BY
50 Hz	400/230 V	61 kVA / 48 kW	67 kVA / 53 kW
Rated Speed	1500 RPM - 50 Hz		
Phase	3		
Power Factor		0,8	

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WEIGHT AND DIMENSIONS			
		OPEN	CANOPY
Length	mm	1750	2460
Width	mm	900	900
Height	mm	1250	1550
Weight	kg	805	1005

<u>Prime</u>: This rating is for the supply of continuous electrical power at variable load.

There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

<u>Stand-by:</u> This rating is for the supply of continuous electrical power at variable load, in the event of utility power failure. No overload is permitted





<b>ENGINE</b>		
		50 Hz
Output Rating	kW	60,5
Manufacturer and Model		Perkins 1103A-33TG2
Fuel		Diesel
Injection		Direct
Aspiration		Turbocharged
Cylinders		3
Bore and Stroke	mm	105 x 127
Displacement	It	3,3
Cooling		Water
Engine Oil Specification		SAE 15W40
Compression Ratio		17,25:1
Engine Oil Capacity	It	8,3
Coolant Capacity (incl.radiator)	lt	10,2
Governor		Mechanical
Air Filter		Dry element
Fuel Consumption		50 Hz
100 % Load	lt/h	14,1
75 % Load	lt/h	10,5
50 % Load	lt/h	7,3

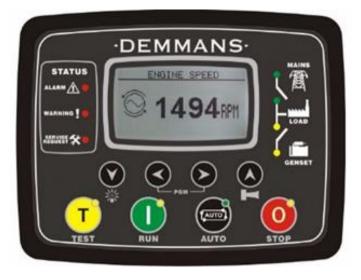
ALTERNATOR			
Poles	4 pole		
Winding Connections	Star		
Insulation	Class H		
Enclosure	IP23		
Exciter System	Self regulating Brushless		
Voltage Regulator	AVR		
Steady State Voltage Regulation	± 1 %		
Bearing	Single bearing sealed		
Coupling	Flexible disc		
Cooling	Direct drive centrifugal blower fan		



EXHAUST SYSTEM				
Maximum Temperature	°C	543		
Exhaust Gas Flow	m³/min	9,8		
Maximum Allowed Back Pressure	kPA	10		
Exhaust Flange Size (Internal Dia.)	mm	56		
AIR SYSTEM	AIR SYSTEM			
Intake Air Flow	m³/min	3,8		
Total Cooling Air Flow	m³/min	110,4		
STARTING SYSTEM				
Starter Motor	kW	3		
Battery Capacity	Ah	75		
Auxiliary Voltage	V	12		
FUEL SYSTEM				
Diesel Specification		EN590		
Fuel Tank Capacity	lt	110		



## **CONTROL PANEL - DMP500**



The DMP500 is next generation genset control unit combining multifunctionality and wide communication possibilities together with a reliable and low cost design.

The unit complies and mostly exceeds world's tightest safety, EMC, vibration and environmental standards for the industrial category. Software features are complete with easy firmware upgrade process through USB port. The Windows based PC software allows monitoring and programming through USB, serial and GPRS.

Alarm and Shutdown functions High Coolant Temperature Low Oil Pressure Battery High / Low Voltage Battery High / Low Voltage Battery High / Low Voltage Battery Charger Alternator Failure Overspeed / Underspeed Failure to Start Low Coolant Level Alarm & Shutdown Alarm & Shutdown Stop Fault Low Coolant Level Alarm & Shutdown Low Fuel Level Alarm & Shutdown Service Required Generator High / Low Voltage Alarm & Shutdown Generator High / Low Frequency Alarm & Shutdown Alarm & Shutdown Generator High / Low Frequency Alarm & Shutdown Over Current Alarm & Shutdown Recitifer Fail Alarm ECU failure Alarm Measure and Monitor functions Total Run Hour Coolant Temperature  Alarm Alarm Coolant Temperature  Alarm Battery Voltage Phase to Neutral Voltage - Mains Phase to Phase Voltage - Generator Phase to Neutral Voltage - Generator Battery Charge Alternator Voltage Phase to Neutral Voltage - Generator Battery Charge Alternator Voltage Phase to Neutral Voltage - Generator Battery Charge Alternator Voltage Phase to Neutral Voltage - Generator Battery Charge Alternator Voltage Phase to Neutral Voltage - Generator Battery Charge Alternator Voltage Phase to Replace Voltage - Generator Battery Charge Alternator Voltage Phase to Replace Voltage - Generator Battery Charge Alternator Voltage Phase to Replace Voltage - Generator Battery Charge Alternator Voltage Phase to Replace Voltage - Generator  Power Factor - Generator  Other functions  Events History Frequency - Generator & Mains Power Factor - Generator  Alarm Alarm Alarm Alarm Bettery Charge Alternator Voltage Programmable Timer Alarm Alarm Alarm Alarm Alarm Bettery Charge Alternator Voltage Alarm Alarm Alarm Alarm Alarm Bettery Charge Alternator Voltage Alarm Alarm Alarm Alarm Alarm Bettery Charge Alarm Bettery C	CONTROL PANEL FEATURES			
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Low Oil Pressure Battery High / Low Voltage Battery Charger Alternator Failure Overspeed / Underspeed Failure to Start Low Coolant Level Stop Fault Low Fuel Level Alarm Service Required Generator High / Low Voltage Generator High / Low Frequency Symmetry between Phases Over Current Alarm Alarm & Shutdown Alarm	High Coolant Temperature	Alarm & Shutdown		
Battery Charger Alternator Failure Overspeed / Underspeed Failure to Start Low Coolant Level Stop Fault Low Fuel Level Alarm & Shutdown Alarm & Shutdown Alarm & Shutdown Stop Fault Low Fuel Level Alarm & Shutdown Generator High / Low Voltage Alarm & Shutdown Al		Alarm & Shutdown		
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Other functionsEvents HistoryProgrammable TimerExternal Start CapabilityMulti LingualStart Restriction ProgramLamp testMains Failure StartRemote MonitoringTest Run Start (On load & off Load)Manual OverrideAllows SMS controlsRemote ProgrammingFuel consumption counterMagnetic Pick Up InputWaveform display of voltage & currentTotal Harmonic Distortion viewProgrammable as an ATS controllerManual "speed fine adjust" on selected ECUsStandardized USB port for programmingJ1939-CANBUS for electrocially governed	Phase to Neutral Voltage - Gen.	Frequency - Generator & Mains		
Events History  External Start Capability  Start Restriction Program  Multi Lingual  Start Restriction Program  Lamp test  Mains Failure Start  Remote Monitoring  Test Run Start (On load & off Load)  Allows SMS controls  Fuel consumption counter  Waveform display of voltage & current  Programmable as an ATS controller  Standardized USB port for programming  Programmable Timer  Manual England  Manual Override  Remote Programming  Manual Override  Remote Programming  Manual Override  Total Harmonic Distortion view  Manual "speed fine adjust" on selected  ECUs  Standardized USB port for programming	Phase current - Generator	Power Factor - Generator		
External Start Capability  Start Restriction Program  Lamp test  Mains Failure Start  Remote Monitoring  Test Run Start (On load & off Load)  Allows SMS controls  Fuel consumption counter  Waveform display of voltage & current  Programmable as an ATS controller  Standardized USB port for programming  Multi Lingual  Lamp test  Remote Monitoring  Manual Override  Remote Programming  Manual Override  Remote Programming  Manual Override  Total Harmonic Distortion view  Manual "speed fine adjust" on selected  ECUs	Other functions			
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Allows SMS controls  Fuel consumption counter  Waveform display of voltage & current  Programmable as an ATS controller  Standardized USB port for programming  Remote Programming  Magnetic Pick Up Input  Total Harmonic Distortion view  Manual "speed fine adjust" on selected  ECUs  Standardized USB port for programming	Mains Failure Start	Remote Monitoring		
Fuel consumption counter  Waveform display of voltage & current  Programmable as an ATS controller  Standardized USB port for programming  Magnetic Pick Up Input  Total Harmonic Distortion view  Manual "speed fine adjust" on selected  ECUs  Standardized USB port for programming  J1939-CANBUS for electrocially governed	Test Run Start (On load & off Load)	Manual Override		
Waveform display of voltage & current  Programmable as an ATS controller  Standardized USB port for programming  Total Harmonic Distortion view  Manual "speed fine adjust" on selected  ECUs  J1939-CANBUS for electrocially governed	Allows SMS controls	Remote Programming		
Programmable as an ATS controller  Manual "speed fine adjust" on selected ECUs  Standardized USB port for programming J1939-CANBUS for electrocially governed	Fuel consumption counter	Magnetic Pick Up Input		
Standardized USB port for programming J1939-CANBUS for electrocially governed	Waveform display of voltage & current	Total Harmonic Distortion view		
Standardized USB port for programming J1939-CANBUS for electrocially governed	Programmable as an ATS controller	-		
· · · ·	Standardized USB port for programming			
	and communication	. –		



GENERATOR FEATURES	STANDARD		OPTIONAL
ENGINE	MANUAL	AUTOMATIC	
Engine	•		Χ
Cooling Pack	•		Χ
Tropical Radiator	>	(	•
Heavy Duty Air Filter	>	(	•
Electronic Governor	>	(	•
High Coolant Temperature Sender	•		X
Low Oil Pressure Sender	•		X
Low Coolant Level Sender	•		X
Radiator Guards			Χ
Hot Component Guards	•	•	Χ
Manual Oil Drain Pump	>	(	•
Fuel Prefilter	>	(	•
Water Jacket Heater	X	•	<ul><li>(Manual)</li></ul>
Industrial Silencer - Open Set	•		Χ
Residential Silencer - Open Set	>	(	•
Residential Silencer - Canopy	•	•	X
Cold start aid	>	(	•
Remote Radiator	X		•
Trailer	>	(	•

GENERATOR FEATURES	STANDARD		OPTIONAL
ENGINE	MANUAL	AUTOMATIC	
ELECTRICS			
Alternator		•	X
Circuit Breaker - 3 poles	)	(	•
Circuit Breaker - 4 poles		Κ	•
Battery Isolator		Κ	•
Earth Fault Protection		Κ	•
Anti condensation Heater	X		•
Optional Voltages	X		•
Class Finsulation	X		•
External Stop Button - Canopy	•		Х
GSM SMS message sending on fault	X		•
Battery Charger	X	•	• (Manual)
ATS Panel - 3 Poles	X	•	X
ATS Panel - 4 Poles	Х	Х	● (Automatic)
Synchronisation Panel	Х	Х	● (Automatic)
		• - Available X	( - Not Available

## **DEMMANS** Generating Sets are CE certified and conform to the following standards;

- Power according to ISO 3046 and ISO 8528
- EN 12100 , EN 13857 , EN 60204
- 2006/42/CE Machinery Safety
- 2006/95/EC Low Voltage
- 2004/108/CE EMC
- Ambient reference conditions 1000 mbar, 25 °C, 30 % relative humidity ISO8528

All the information in this leaflet is intended for general purposes only. DEMMANS reserves the right to change the specifiacations without notice.

## **DEMMANS**

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