

IDJ330P

IDEA DIESEL GENERATING SET TECHNICAL SPECIFICATIONS



ELECTRICAL			
FREQUENCY	VOLTAGE	PRIME	STAND-BY
50 Hz	400/230 V	300 kVA / 240 kW	330 kVA / 264 kW
Rated Speed	1500 RPM		
Phase	3		
Power Factor	0,8		

Prime: 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.

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

WEIGHT AND DIMENSIONS				
		OPEN	CANOPY	
Length	mm	3000	3940	
Width	mm	1300	1300	
Height	mm	1600	1850	
Weight	kg	2330	2870	

IDJ330P

ENGINE			
Output Rating	kW	297	
Manufacturer and Model		Perkins 1506A-E88TAG5	
Fuel		Diesel	
Injection		Direct	
Aspiration		Turbocharged & Intercooled	
Cylinders		6	
Bore and Stroke	mm	116,6 x 146	
Displacement	lt	9,3	
Cooling		Water	
Engine Oil Specification		SAE 15W40	
Compression Ratio		17,2:1	
Engine Oil Capacity	lt	36	
Coolant Capacity (incl.radiator)	lt	30,9	
Governor		Electrical	
Air Filter		Dry element	
Fuel Consumption		50 Hz	
100 % Load	lt/h	61,0	
75 % Load	lt/h	47,0	
50 % Load	lt/h	34,0	
EXHAUST SYSTEM			
Maximum Temperature	°C	410	
Exhaust Gas Flow	m³/min	24,6	
Maximum Allowed Back Pressure	kPA	10	
Exhaust Flange Size (Internal Dia.)	mm		
AIR SYSTEM	T		
Intake Air Flow	m³/min	19,7	
Total Cooling Air Flow	m³/min	609	
STARTING SYSTEM			
Starter Motor	kW	I	
Battery Capacity	Ah	2x105	
Auxiliary Voltage	V	24	
Adminity voltage	, v	24	
FUEL SYSTEM			
Diesel Specification		EN590	
Fuel Tank Capacity	lt	385	
. ,			
ALTERNATOR			
Poles		4 pole	
Winding Connections	1	Star	
Insulation			
Enclosure		Class H	
	+	IP23	
Exciter System	+	Self regulating Brushless	
Voltage Regulator		AVR	
Steady State Voltage Regulation	1	± 1 %	
Bearing		Single bearing sealed	
Coupling	1	I er er e	
Cooling		Flexible disc Direct drive centrifugal blower fan	

CONTROL PANEL - IDP500

The IDP500 is next generation genset control unit combining multi-functionality 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,



Alarm and Shutdown functions High Coolant Temperature Low Oil Pressure Battery High / Low Voltage Battery Charger Alternator Failure Overspeed / Underspeed Failure to Start Low Coolant Level Alarm & Shutdown Al	CONTROL PANEL FEATURES				
Low Oil Pressure Battery High / Low Voltage Battery Charger Alternator Failure Overspeed / Underspeed Failure to Start Low Coolant Level Stop Fault Low Fuel Level Service Required Generator High / Low Voltage Generator High / Low Frequency Symmetry between Phases Over Current Recitifer Fail ECU failure Measure and Monitor functions Total Run Hour KW meter - Generator Service Indicator Phase to Phase Voltage - Mains Phase to Neutral Voltage - Generator Other functions Events History Programmable Timer External Start Capability Mains Failure Start Remote Monitoring Fuel Lamp test Mains Failure Start Remote Monitoring Forst Run Hour Alarm Frequency - Generator Other functions Frequency - Generator Mains Failure Start Remote Monitoring Test Run Start (On load & off Load) Manual Override	Alarm and Shutdown functions				
Battery High / Low Voltage Battery Charger Alternator Failure Overspeed / Underspeed Failure to Start Low Coolant Level Stop Fault Alarm & Shutdown Alarm Generator High / Low Voltage Alarm & Shutdown Generator High / Low Frequency Alarm & Shutdown Alarm & Shutdown Alarm & Shutdown Alarm & Shutdown Over Current Alarm & Shutdown Over Current Alarm & Shutdown Alarm & Shutdown Alarm & Shutdown Over Current Alarm & Shutdown Over Current Alarm & Shutdown Coolant Temperature Alarm Measure and Monitor functions Total Run Hour Coolant Temperature KW meter - Generator Oil Pressure Service Indicator Fuel Level Phase to Phase Voltage - Mains Phase to Neutral Voltage - Mains Phase to Neutral Voltage - Generator Battery Charge Alternator Voltage Phase to Neutral Voltage - Gen. Frequency - Generator & Mains Phase current - Generator Other functions Events History Programmable Timer External Start Capability Multi Lingual Start Restriction Program Lamp test Mains Failure Start Remote Monitoring Test Run Start (On load & off Load) Manual Override	High Coolant Temperature	Alarm & Shutdown			
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Phase current - Generator Other functions Events History External Start Capability Start Restriction Program Mains Failure Start Test Run Start (On load & off Load) Power Factor - Generator Programmable Timer Multi Lingual Lamp test Remote Monitoring Manual Override	Phase to Phase Voltage - Generator	Battery Charge Alternator Voltage			
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Events History Programmable Timer External Start Capability Multi Lingual Start Restriction Program Lamp test Mains Failure Start Remote Monitoring Test Run Start (On load & off Load) Manual Override	Phase current - Generator	Power Factor - Generator			
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Start Restriction Program Mains Failure Start Test Run Start (On load & off Load) Manual Override	Events History	Programmable Timer			
Mains Failure Start Remote Monitoring Test Run Start (On load & off Load) Manual Override	External Start Capability	Multi Lingual			
Test Run Start (On load & off Load) Manual Override	Start Restriction Program				
, ,	Mains Failure Start	·			
Allows SMS controls Remote Programming	Test Run Start (On load & off Load)				
	Allows SMS controls	Remote Programming			
Fuel consumption counter Magnetic Pick Up Input	Fuel consumption counter				
Waveform display of voltage & current Total Harmonic Distortion view	Waveform display of voltage & current	Total Harmonic Distortion view			
Programmable as an ATS controller Manual "speed fine adjust" on selected ECUs	Programmable as an ATS controller	Manual "speed fine adjust" on selected ECUs			
Standardized USB port for programming J1939-CANBUS for electrocially governed	Standardized USB port for programming				
		engines			

GENERATOR FEATURES	STANDARD		OPTIONAL
ENGINE	MANUAL	AUTOMATIC	
Engine	•		Х
Cooling Pack	•		X
Tropical Radiator		X	•
Heavy Duty Air Filter		X	•
Electronic Governor		•	X
High Coolant Temperature Sender		•	Х
Low Oil Pressure Sender		•	Х
Low Coolant Level Sender		•	X
Radiator Guards		•	Х
Hot Component Guards		•	Х
Manual Oil Drain Pump		X	•
Fuel Prefilter		Х	•
Water Jacket Heater	Х	•	• (Manual)
Industrial Silencer - Open Set		•	X
Residential Silencer - Open Set		Х	•
Residential Silencer - Canopy	•		Х
Cold start aid	X		•
Remote Radiator	X		•
Trailer	X		•
ELECTRICS			
Alternator		•	X
Circuit Breaker - 3 poles	X		•
Circuit Breaker - 4 poles	X		•
Battery Isolator	X		•
Earth Fault Protection	X		•
Anti condensation Heater	X		•
Optional Voltages	X		•
Class F insulation	X		•
External Stop Button - Canopy	•		X
GSM SMS message sending on fault	X		•
Battery Charger	Х	•	• (Manual)
ATS Panel - 3 Poles	Х	•	X
ATS Panel - 4 Poles	Х	X	• (Automatic)
Synchronisation Panel	Х	Х	• (Automatic)

• - Available X - Not Available

REFERENCE STANDARDS

IDEA 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.IDEA reserves the right to change the

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