

BIDEFORD POWER PTE. LTD.

TECHNICAL SPECIFICATIONS

Generator Details:

Tempest (Manufactured by Allam Marine Limited, UK) Diesel Generating Set Model: PM100 (100KVA Prime & 110 KVA Standby) at 1500 rpm, 50 Hz, 3 phase, 4 wire, 400/230 volts at 0.8 power factor. All other details are as follows:

BRAND : Tempest	MODEL : PM100
COUNTRY OF ORIGIN : UK	PORT OF SHIPMENT : Thames port, UK
CAPACITY (Prime) : 100 KVA	CAPACITY (stand by) : 110 KVA
START SYSTEM : Automatic Microcontroller based as well manual Start / Stop System	
EMERGENCY STOP : Emergency Stop available as protection device	
VIBRATION SKID : Built-in vibration skid for smooth operation	
BATTERY CHARGER : Auto Battery Charger (ABC) included	
DIMENSION (cm) : (LxWxH)	FUEL TANK CAPACITY : 260 Liter
FUEL CONSUMPTION : 0 Ltr./Hr. at 80% Load	

Engine Details:

BRAND/ORIGIN : Perkins, UK	MODEL : 1104C-44TAG2
SPEED : 1500 RPM	INDUCTION SYSTEM : Turbocharged
ENGINE TYPE : 4 stroke multi cylinder industrial diesel Engine suitable for tropical environment	
COOLING SYSTEM : Water cooled (Radiator cooled with engine driven fan)	
PROTECTION : Over speed, under speed, oil pressure, Over heating etc	
FUEL TANK : Built in with base	

All other details are as per attached Engine catalogues.

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Alternator Details :

Industrial brushless AC Alternator model all other details are as follows:

BRAND/ORIGIN : Mecc Alte, UK / Italy	Model / Frequency : ECP34-2S/4 , 50 Hz
PHASE : 3 Phase	Output (Volts) : 400/415 volts (Line to line)
COOLING : Air cooling	Insulation Type : Class " H "
PROTECTION : Industrial brushless design screen protected, fan ventilated, drip-proof, self exciting in accordance with IP23	
VOLTAGE REGULATOR : Automatic Voltage Regulator (AVR)	
VOLTAGE REGULATION : $\pm 1\%$ / $\pm 1.5\%$ power factor between 0.8 lagging & unity	

Alternator model may vary with the attached catalogues for manufacturing innovation.

Control Module:

Deep Sea UK control system is incorporated with automatic set to manually & automatically start & stop the generator indicating the operation status and fault conditions via a graphical LCD display and a flashing LED on the front panel. All other details are as follows:

CONTROL MODULE TYPE	: Auto start (AMF) digital/Analogue control module
OPERATION	: Operation of the module is via push buttons mounted on the front panel with STOP, AUTO and MANUAL positions etc
DIGITAL INSTRUMENTS	: Ammeter, Voltmeter, Frequency meter, run hour meter, Oil Pressure, Water Temperature etc.
ALARM INDICATOR	: Under/Over Volts, Under/over speed, Under/Over Frequency, Low Oil Pressure, High Engine Temperature, Fail to Start and Loss of speed sensing etc.
LOAD TRANSFER TIME	: Adjustable, Delay on start 1 to 25 sec, Delay on transfer 1 to 70 sec
ENGINE COOLING TIME	: 5 minutes maximum
PHASE FAILURE RELAY	: Digital option & control for Main's upper lower cut off voltage setting and adjustable hysteresis voltage, sensing option etc

All other details are as per attached Allam's/DSE Catalogue