



## ALPHA MARINE GENERATOR

20kVA

16kW- 1500RPM

Model-AM-20

ENGINE :			
ENGINE MAKE:	AME	BORE X STROKE	98 X 122
ENGINE MODEL :	AM-20	GROSS POWER	18.5kW
WORKING PRINCIPLE:	4 STROKE	COMPRESSION RATIO:	17.5:1 $\pm$ 5%
ENGINE RPM	1500	INJECTION SYSTEM:	Inline, BOSCH
NUMBER OF CYLINDERS	2	INTAKE SYSTEM:	NATURALLY ASPIRATED
TOTAL DISPLACEMENT:	1840 C.C	BMEP:	8 Bar
OIL TYPE:	API CI4 15W40	OIL SUMP CAPACITY:	5 Ltrs
FLYWHEEL HOUSING :	SAE 3/10	BSFC (g/kW-hr):	220 $\pm$ 5
FUEL TYPE :	DIESEL	GOVERNOR TYPE:	MECHANICAL
CONFIGURATION	INLINE	GOVERNOR CLASS:	A1
INTAKE AIR PRESSURE	0.4 kpa	FIRING ORDER	1-2

ELECTRICAL SYSTEM :			
BATTERY VOLTAGE:	12 V	STOP SOLENOID TYPE:	ETS
STARTER MOTOR (kW)	1	EXHAUST BACK PRESS.	3.5 kpa

ALTERNATOR DETAILS :			
BRAND:	STAMFORD	POWER FACTOR:	0.8
MODEL:	S0L1D1	EXCITATION SYSTEM:	SELF EXCTED
CURRENT:	27 Amps	PHASE :	3
VOLTAGE REGULATION:	$\pm$ 1%	NUMBER OF POLES:	4
INSULATION TYPE:	H CLASS	ALTERNATOR TYPE:	BRUSHLESS
FREQUENCY	50Hz	AVR TYPE	AS540
IP PROTECTION:	IP 23	VOLTAGE STAR	415/240

DIMENSIONS :	
DG WITH ACCOUSTIC	1200mm (L) x 850mm (W) x 1040mm (H)



## CONTROLLER :

- > Intuitive operator interface which includes LED backlit LCD display with tactile feel soft-switches & generator set status LED lamps
- > Digital AVR for shunt or PMG excitation with torque matching.
- > Digital electronic governing with temperature compensation and smart starting.
- > SAE J1939 interface to Full Authority Electronic (FAE) engines.

### Remote start-stop

- > Engine metering: Oil pressure, Coolant temperature, Battery voltage, Engine speed
- > AC Alternator metering: L-L Voltage and L-N Voltage, Current (1 and 3 phase),
- > Volt-Amperes (phase and total) and Frequency.
- > Engine protection: Low lube oil pressure, High/Low coolant temperature, Over speed, Battery Over/Under/Weak Volts, Fail to crank/start, Sensor failure.
- > AC Alternator protection: Over/Under voltage, Over/Under frequency, Over current, Short circuit and Loss of AC sensing.
- > Data logging: Engine hours, Control hours, Engine starts and upto 10 recent fault codes
- > Configurable glow plug control
- > Configurable cycle cranking
- > 12 and 24 Volt DC operation
- > Sleep mode
- > Programmable I/O (4 inputs and 2 outputs), expandable with AUX101/102 modules
- > Modbus interface (RS485 RTU)
- > InPower compatible (PC based service tool)
- > Certifications - meets the requirement of relevant UL, NFPA, ISO, IEC, Mil Std., CE and CSA standards

