

GenSet Specification

RIACS 17ANI SD5

	ADVANTAOL			DIVIOS. 1740LSP 3				
	Model Mitsubishi Engine	Mitsubishi	Alternator	Rating	50 HZ ( 1500 rpm )		60 HZ ( 1800 rpm )	
		Engine			KVA	KW e	KVA	KW e
	BMGS.1740LS P5 S16R - PTA			Continuous (C)	1.560	1.248	1.570	1.256
		LSA51.2S55 / 4P	Prime (P)	1.740	1.392	1.845	1.476	
				Standby (S)	1.905	1.524	2.040	1.632

### GENERAL

### RATING DEFINITIONS

Ratings are based on SAE J1349 standard conditions. These rating also apply at ISO 3046/1, DIN 6271 and BS5514 standard conditions.

Ambient air temperatu	40° C	Relative humidity	85%
Altitude	1500 m.ASL	Charge air coolant temp	50° C
Place of instalation	Indoor		
Continuous	Applicable for supplying power cont ISO.15550, ISO.3046/1, JISB8002-	,	
Prime	Applicable for supplying power with commercially purchased power. 109 the supply of electrical consumers in and BS5514.	% overload is for governing purpo	ose only and shall not be used for
Stand-by	Applicable for supplying emergency interruption. Fuel stop power in accord BS5514. Overload no allowed	, , ,	
Shop testing			
Generator set testing	shall be carried out by the following iter	ms :	
Starting Test		cted to determine the starting tin the starting test is 10 minutes	ne of the engine until is ready to

Starting Test	load. Duration time for the starting test is 10 minutes
Protection Test	Protection test was performed to determine the machine before receiving the load. Protection test included engine and generator test
Load Test	Load test phases starting from 25%, 50%, 75%, 100% until 110% overload
Governor Test	Governor test should be done along with respective governor control. At 50% and 100% load is releases suddently

# DIESEL ENGINE DATA

PARICULAR	
Engine Model	S16R - PTA
Туре	4 Cycle, water cooled, Turbocharger with after cooler
No Of Cylinder	16 Cylinder
Arrangement	V Type
Bore X Stroke (mm)	170 X 180
Displacement Total (Liter)	65.3
Compression Ratio	14.0 : 1
Combustion System	Direct Injection
Lubricating Oil Class	CF Class SAE 40
Fuel Consumption	204 gr / kwh at 1500 rpm (Prime Rating)
(Allowance + 5%)	213 gr / kwh at 1800 rpm (Prime Rating)

### STANDARD ENGINE EQUIPMENT

POWER LINE SYS	TEM	LUBRICATING SYSTE	Ι.Μ
Flywheel	SAE 21 Except Screw Size	Oil Pump model	Gear Pump Type
Flywheel Housing	SAE 00 Except Screw Size	Oil Pump Capacity	480 Liter/min at 1500 rpm
Engine Mounting	Rubber Type		580 Liter/min at 1800 rpm
		Lube Oil Pressure	4.0 - 6.5 kg/cm2
		Max Oil Temperature	110 deg C

Oil Quantity Total

230 Liter



1.5 kg/cm2

10% from rated speed

98 deg C

### GenSet Specification BMGS 17401 SP5

Centrifugal Pump
Capacity 1650 Liter/min at 1500 rpm
1850 Liter/min at 1800 rpm
Temp 98 deg C
Air Temp 40 deg C (TAA Type)
acity 350 Liter
EM
np Bosch Type PS.8
Head 75 mm Hg of feed Pump
Paper Element cartridge type
SYSTEM
DC24V, 7.5 KW Qty 2 Ea
DC24V, 30A With voltage
regulator
lenoid Fuel limit at engine starting
Energize to fuel control unit rated speed
OISE LEVEL

1 Meter Hight and Distance 109 Db (A)

## GENERATOR DATA

Low Oil Pressure

High Water Temp

Over Speed

The alternator is designed to be suitable for typical generator set applications to backup power or continuos operation. The Alternator conform to the main international standards and regulations : IEC 60034, NEMA MG 1.22, CSA/UL on request, marine regulation and other. It can be integrated into a CE marked generator. The alternator is designed , manufactured and marketed in an ISO 9001 environment.

MAIN DATA			
Generator Type	LSA 51.2 S55 / 4P	Nominal Current	2826 A
Power	1860 KVA/ 1488 Kwe	Speed	1500 rpm
Voltage	380 V	Ambient	40 deg C
Power Factor	0.8 Lagging	Altitude	1000 m (SLA)
Frequency	50 HZ	Rotation	CW Clockwise (Seen when
Winding Type	P 2/3		facing the D - End )
Insulation	Class H	Bearing Type	Single Bearing
Temp Rise	Class H	Protection	IP 23
Type Of Excitation	AREP + PMI	Air Temp	40 deg C
AVR Type	R449 (Internal)	Ventilation (Internal)	Self Vent

### CONTROL PANEL

DGCP2002B STANDARD FEATURE

The DGCP 2002B is an Auto Start Control Module and DGCP 2002B1 is an Auto Main Failure Control Module (Option) suitable for a wide variety of single, diesel or gas, gen - set applications. A sophisticated module monitoring an extensive number of engine parameter, the DGCP 2002B will annunciate warning, shutdown and engine status information on the back lit LCD screen, illuminated LED, remote PC, audible alarm and via SMS text alert. The control system includes RS232, RS485 and Ethernet ports as well as dedicated terminals for system expansion.

The DGCP 2002B compatible with electronic (CAN) and non electronic (magnetic pick up or alternator sensing) engines and offer a comprehensive number of flexible inputs, outputs and extensive engine protections so the system can be easily adapted to meet the most demanding industry paralleling requirements. The module can be easily configured using the DSE Configuration Suite Software. Selected front panel editing is also available.

Notice. The module DSE comply environmental testing standards : Electromagnetic compatibility BS EN 61000-6-2, Electrical safety BS EN 60950, Temperature BS EN 60068-2-1, Vibration BS EN 60068-2-1, Humidity BS EN 60068-2-30, Shock BS EN 60068-2-27, Degrees of protection provided by eclosure BS EN 60529



Load switching (load sheldding and dummy load outputs)

Remote SCADA monitoring using module software

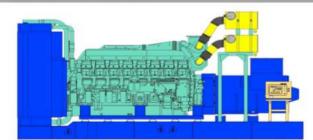
Unbalanced load protection Independent earth fault trip



KEY FEATURE AND BENEFIT	SPECIFICATION	1
Configurable inputs (11) and output (8)	DC Supply	8 V to 35 V Continuous
Voltage measurement	Cranking Dropouts	Able to survive 0 V for 50 ms, providing
Main (utility) failure detection		supply was at least 10 V before dropout
Dedicated load test button		and supply recovers to 5 V. This is achieved without the need
KW overload alarm	Operating current	260 Ma at 12V, 130 Ma at 24 V (max)
Comprehensive electrical protection	Standby current	120 Ma at 12V, 65 Ma at 24 V (max)
RS 232, RS485 and ethernet remote communications	Charge Fail	
Modbus RTU/TCP	Exitation range	0 V to 35 V
PLC functionality	Output fuel	15 A DC Supply voltage
Multi event exercise timer	Output start	15 A DC Supply voltage
Automatic start and manual start	Voltage Range	15 V to 333 V AC (L - N)
Even log (250)	Frequency Range	3.5 Hz to 75 Hz
Engine protection	Storage Temp	-40 degC to +85 degC
Fault condition notification to a designated PC	Operating Temp	-30 degC to +70 degC
Fuel usage monitor and low fuel alarm		
Manual speed control (On compatible CAN engines)		
Reverse power protection		
Power monitoring (KWH, KVAR, KVAH, KVARH)		

Advanced SMS messaging and start stop unit	
STANDARD FEATURE	OPTIONAL
DGCP 2002B Auto start model	DGCP 2002B1 for Auto Main Failure (AMF) and Automatic
Electronic Governor G2 Class - TOHO	Load Transfer
Industrial Silencer BIS 355/14"	DGCP 2003B for Automatic synchronizing
Exhaust Flexible BES 355/14" C/W Flange	Electronic Governor G3 Class
Lead Acid Battery - 2 Ea X 12VDC, 2 Bank	CT Droop for LS generator
Battery Cable and Rack	Residential Silencer BRS 355/14"
Flexible Fuel line (Supply and return)	Critical Silencer BCS 355/14"
Water Level for Radiator	Fuel Separator (RACOR)
Exhaust Gas Temperature (Manual type)	Remote Radiator (Horisontal Type)
Vibration Isolator (rubber mounting type)	Jacket Water Heater (standby unit)
Steel structure for common bad	Pre Lube Oil Pump (standby unit)
Air cleaner with paper element type	Space Heater (standby unit)
Standard tool for operation	Lube Oil Heater (standby unit)
Operation and maintenance book	Auxilliary Control Panel
Part Catalog book	Vibration Isolator Spring type
Factory Test Certificate	Communication Tool
	Note. For additional items can follow customer demand

### DIMENSION AND WEIGHT



### PT. GENINDO BERKAT UTAMA Komplek Perkantoran Bintaro Point JI. Tegal Rotan Raya Blok B no 5-7 Bintaro Sektor 8 Tangerang Selatan 15229

DVERALL DIME	N2ION (mm
Length	5118
Width	2160
High	2858
WEIGHT	í (kg)
Dry Weight	13300
Wet Weight	13504

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