



# Application and Engineering Data

	<b>Basic Technical Data</b>		<b>Lubrication System</b>
<b>Manufacturer</b>	Mitsubishi		<b>Lubricating oil capacity total system</b>
<b>Model</b>	S16R-Y2PTAW-1		<b>Maximum sump capacity</b> 52.8 gal (200.0 L)
<b>Number of cylinders</b>	16		<b>Minimum sump capacity</b>
<b>Cylinder arrangement</b>			<b>Maximum engine operating angles (front up, front down, right side or left side)</b>
<b>Cycle</b>	Four stroke		
<b>Induction system</b>	Turbocharged intercooler		
<b>Compression ratio</b>	14.5:1		
<b>Bore</b>	6.69 in (170 mm)		
<b>Stroke</b>	7.09 in (180 mm)		
<b>Cubic capacity</b>	3989 cu in (65.4 L)		
<b>Direction of rotation</b>			<b>Lubricating Oil Pressure</b>
<b>Firing order</b>			<b>Oil Temperature (continuous operation)</b>
<b>Governor type</b>	Isochronous		<b>Oil Temperature (maximum intermittent operation)</b>
<b>Gross engine power</b>	2346 bhp (1750 kWm)		
<b>Electropak net engine power</b>			<b>Electrical System</b>
<b>Brake mean effective pressure</b>			<b>Type</b>
<b>Engine coolant flow (against 5 psi (35 kPa) restriction)</b>	489 gpm (1850.9 Lpm)		<b>Alternator type</b>
<b>Cooling fan air flow (29 psi (200 kPa) external restriction)</b>	91700 scfm (2589 cmm)		<b>Alternator Voltage</b> 24 V
<b>Combustion air flow (at rated speed)</b>	5932 cfm (168 cmm)		<b>Alternator Output</b> 30 A
<b>Exhaust gas flow (max)</b>	15642 cfm (443 cmm)		<b>Starter motor type</b>
<b>Exhaust gas mass flow (max)</b>			<b>Starter motor voltage</b> 24 V
<b>Exhaust gas temperature in manifold (max)</b>	935° F (487° C)		<b>Starter motor power</b>
<b>Boost pressure ratio</b>			<b>Minimum cranking speed</b>
<b>Overall thermal efficiency (net)</b>			<b>Induction System</b>
	<b>Cooling System</b>		<b>Maximum air intake restriction</b>
<b>Coolant</b>			<b>Clean filter</b>
<b>Total System Capacity</b>			<b>Dirty filter</b>
<b>With radiator</b>	622.0 qt (588.6 L)		<b>Air filter type</b>
<b>Without radiator</b>	179.6 qt (169.9 L)		
<b>Coolant Pump Drive</b>	Centrifugal		<b>Duct allowance with 50% glycol</b>
<b>Coolant pump drive ratio</b>			
<b>Maximum top tank temperature</b>			<b>Fuel System</b>
<b>Temperature rise across engine (rating dependent)</b>			<b>Type of injection</b>
<b>Thermostat operation range</b>			<b>Fuel injection pump</b> Engine driven
<b>Recommended coolant:</b>			<b>Fuel atomizer</b>
	<b>Exhaust System</b>		<b>Fuel Lift Pump</b>
<b>Maximum back pressure</b>	23.6 H <sub>2</sub> O (5.9 kPa)		<b>Max flow through customer filter</b> 148 gph (560.2 Lph)
<b>Exhaust outlet size</b>	13.39 in (340 mm)		<b>Maximum suction head</b> 3 ft (1 m)
			<b>Fuel Consumption</b>
			<b>110% Load</b>
			<b>100% Load</b> 126.6 gph (479.2 Lph)
			<b>75% Load</b> 9401 gph (356.2 Lph)
			<b>50% Load</b> 65.0 gph (246.0 Lph)

# Generator Controller Options



- Dashboard Style LCD Panel
- NFPA 110
- SAE J1939 ECU Communications
- Load Share Synch Features
- Metering, Data Trending, Alarms
- Engine Status Indicators
- Fuel Consumption
- CanBus, ModBus
- Ethernet Communications
- Remote Contacts Form C, RS 232/485
  
- Internet Bridge Module
- Internet Connection & Web Browser
- Remote Access & Control
- IntelliMonitor Network Management
- SNMP, PC SCADA
- Site Overview & Statistic Settling
- Automatic Downloads, Report Writer
- Receive Emails or IM Text
- CAT 5e, RS232/485, RJ 45
- Ethernet or Dial Up Connection
- Fleet Scalability

## Alternator Specifications

<b>Manufacturer</b>	Marathon	<ul style="list-style-type: none"> <li>• NEMA MG1, IEEE, AND ANSI standards compliance for temperature and motor starting.</li> <li>• Sustained short-circuit current of the rated current for up to 10 seconds.</li> <li>• Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.</li> <li>• Self-ventilated and dripproof construction.</li> <li>• Superior voltage waveform from a two-thirds pitch stator and skewed rotor.</li> <li>• Linkboards</li> <li>• Optimized Electrical Design</li> <li>• Enhanced Ventilation</li> <li>• Fully Guarded</li> <li>• Heavy Duty Bearings</li> </ul>
<b>Type</b>	Ext. Voltage Regulated, Brushless	
<b>Gen Frame</b>	360 MAGNAMAX	
<b>Insulation</b>	NEMA	
<b>Material</b>	Class H	
<b>Temperature Rise</b>	130 °C, Standby	
<b>Hertz</b>	60	
<b>Phase</b>	3	
<b>RPM</b>	1800	
<b>Exciter</b>	Rotating	
<b># Leads</b>	12 Reconnectable or 4 Single Phase	
<b>PF</b>	0.8	
<b>Ambient</b>	40°C	
<b>Coupling Single Bearing</b>	Flexible	
<b>Amortisseur Windings</b>	Full	
<b>Cooling Air Volume</b>	250 CFM	
<b>Peak Motor Starting</b>	35% Voltage Dip, 5500 skVA	
<b>Voltage Regulation no-load and full-load</b>	3 Phase Sensing 1/2%	

## STANDARD FEATURES

- Heavy Duty Steel Base
- Vibration Isolators
- Oil Drain Valve with Extension
- Battery Rack
- Battery Cables
- High Ambient Unit Mounted Radiator
- Battery Charging Alternator
- Factory Paint
- Factory Test Prior to Shipment
- 2 Year Warranty
- Owners Manual

## AVAILABLE ACCESSORIES

### OPEN UNIT

- Narrow Skid Base
- Radiator Duct Flange
- Ship Loose Flex Exhaust
- Ship Loose Critical Silencer

### ENCLOSED UNIT

- Wide Skid Base
- Standard Enclosure With Internal Silencer
- Sound Attenuated Enclosure With Silencer
- Load Center With Lights and GFI Receptacle
- Sub-Base Fuel Tank

### CONTROLLER

InteliLite Model IL-NT-MRS19

Ethernet Bridge

Remote Annunciator

## MISCELLANEOUS

- Flexible Fuel Lines
- Coolant Drain Kit
- Water Jacket Heater
- Oil Pan Heater
- Generator Strip Heater
- Battery
- Battery Charger
- Pad Type Battery Heater
- Battery Heater Blanket with Thermostat
- Line Circuit Breaker

## WARRANTY

- 3 Year Warranty
- 5 Year Warranty

## APPROVALS AND LISTINGS

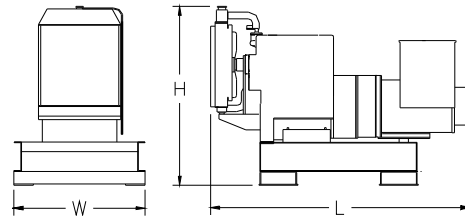
- UL Standard 2200

## WEIGHTS AND DIMENSIONS

OVERALL SIZE, L x W x H,: 252 in. x 87.9 in. x 101.8 in.

WEIGHT: 31600 lbs.

Note: Dim and weights reflect standard open unit with no options



Note: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

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