## **TECHNICAL DATASHEET M 1280 S**



## M 1280 S





## **POWERFULL "S"**



For illustrative purposes only

Description MITSUBISHI Engine model S12R-PTA Cylinders 12 RPM speed 1500 Cubic capacity 49.03 I Air intake Turbocharged Standard voltage 24 Vdc Optional voltage 24 Vdc Optional voltage 40-21 BMEP 1814 kPa Cooling Water Flywheel P.R.P. Power net 1110.0 kW Flywheel E.P. Power net 1120.0 kW Fuel Cons. at 100% (E.P.) 294.0 l/h Fuel Cons. at 100% (P.R.P) 269.0 l/h Fuel Cons. at 55% (P.R.P.) 151.0 l/h Fuel Cons. at 55% (P.R.P.) 93.0 l/h Fuel Cons. at 55% (P.R.P.) 151.0 l/h Fuel Cons at 25% (P.R.P.) 151.0 l/h Fuel Cons at 55% (P.R.P.) 75.0 l Electronic regulator Standard Precision class G3 Oil quantity 180.0 l Engine Antifreeze capacity 125.0 l Radiator type TE Heat from radiator 648.0 kW Heat from exhaust 758.0 kW Heat from radiation 77.8 kW Exhaust temperature 0 °C Combustion air flow 89.0 m³/min Exhaust gas flow 235.0 m³/min TA Luft N TA Luft/2 N Stage N	ENGINE		
Engine model         \$12 kmp           Cylinders         12 kmp           RPM speed         1500 kmp           Cubic capacity         49.03 lmp           Air intake         Turbocharged           Standard voltage         24 kmp           Optional voltage         Vdc           Sae         00-21 kmp           BMEP         1814 kpa           Cooling         Water           Flywheel P.R.P. Power net         1110.0 kW           Flywheel E.P. Power net         1220.0 kW           Fuel Cons. at 100% (E.P.)         294.0 l/h           Fuel Cons. at 50% (P.R.P.)         203.0 l/h           Fuel Cons. at 55% (P.R.P.)         93.0 l/h           Fuel Cons. at 55% (P.R.P.)         93.0 l/h           Fuel Cons. at 25% (P.R.P.)         93.0 l/h           Fuel Cons. at 25% (P.R.P.)         93.0 l/h           Fuel Cons. at 25% (P.R.P.)         93.0 l/h           Fleetronic regulator         Standard           Precision class         G3           Oil quantity         180.0 l           Engine Antifreeze capacity         125.0 l           Read from radiator         648.0 kW           Heat from radiation         77.8 kW           Exhaust temperature </td <td></td> <td>MITCHIDICUL</td> <td></td>		MITCHIDICUL	
Cylinders         12           RPM speed         1500           Cubic capacity         49.03         I           Air intake         Turbocharged         Vdc           Standard voltage         24         Vdc           Optional voltage         Vdc         Vdc           Sae         00-21         BMEP         1814         KPa           Cooling         Water         Vdc			
RPM speed       1500         Cubic capacity       49.03       I         Air intake       Turbocharged         Standard voltage       24       Vdc         Optional voltage       Vdc         Sae       00-21       BMEP       1814       kPa         Cooling       Water       Flywheel P.R.P. Power net       1110.0       kW         Flywheel E.P. Power net       1220.0       kW         Fuel Cons. at 100% (E.P.)       294.0       l/h         Fuel Cons. at 100% (P.R.P)       269.0       l/h         Fuel Cons. at 75% (P.R.P.)       203.0       l/h         Fuel Cons. at 25% (P.R.P.)       93.0       l/h         Fuel Cons. at 50% (P.R.P.)       93.0       l/h         Fuel Cons. at 50% (P.R.P.)       93.0       l/h			
Cubic capacity       49.03       I         Air intake       Turbocharged         Standard voltage       24       Vdc         Optional voltage       Vdc         Sae       00-21         BMEP       1814       kPa         Cooling       Water         Flywheel P.R.P. Power net       1110.0       kW         Flywheel E.P. Power net       1220.0       kW         Fuel Cons. at 100% (E.P.)       294.0       l/h         Fuel Cons. at 100% (P.R.P)       269.0       l/h         Fuel Cons. at 75% (P.R.P.)       203.0       l/h         Fuel Cons. at 50% (P.R.P.)       93.0       l/h         Fuel Cons. at 25% (P.R.P.)       93.0       l/h         Fuel Cons. at 50% (P.R.P.)       93.0       l/h         Fuel Cons. at 50% (P.R.P.)       93.0       l/h         <			
Air intake       Turbocharged         Standard voltage       24       Vdc         Optional voltage       Vdc         Sae       00-21         BMEP       1814       kPa         Cooling       Water         Flywheel P.R.P. Power net       1110.0       kW         Flywheel E.P. Power net       1220.0       kW         Fuel Cons. at 100% (E.P.)       294.0       l/h         Fuel Cons. at 100% (P.R.P)       269.0       l/h         Fuel Cons. at 50% (P.R.P.)       203.0       l/h         Fuel Cons. at 55% (P.R.P.)       93.0       l/h         Fuel Cons. at 25% (P.R.P.)       93.0       l/h			
Standard voltage       24       Vdc         Optional voltage       Vdc         Sae       00-21         BMEP       1814       kPa         Cooling       Water         Flywheel P.R.P. Power net       1110.0       kW         Flywheel E.P. Power net       1220.0       kW         Fuel Cons. at 100% (E.P.)       294.0       l/h         Fuel Cons. at 100% (P.R.P)       269.0       l/h         Fuel Cons. at 75% (P.R.P.)       203.0       l/h         Fuel Cons. at 50% (P.R.P.)       151.0       l/h         Fuel Cons. at 25% (P.R.P.)       93.0       l/h         Fuel Cons. at 25% (P.R.P.)       151.0       l/h         Fuel Cons. at 25% (P.R.P.)       93.0       l/h         Fuel Cons. at 25% (P.R.P.)       93.0       l/h         Fuel Cons. at 25% (P.R.P.)       151.0       l/h         Fuel Cons. at 25% (P.R.P.)       151.0	, ,		I
Optional voltage         Vdc           Sae         00-21           BMEP         1814         kPa           Cooling         Water         Flywheel P.R.P. Power net         1110.0         kW           Flywheel E.P. Power net         1220.0         kW           Fuel Cons. at 100% (E.P.)         294.0         l/h           Fuel Cons. at 100% (P.R.P)         269.0         l/h           Fuel Cons. at 75% (P.R.P.)         203.0         l/h           Fuel Cons. at 50% (P.R.P.)         151.0         l/h           Fuel Cons. at 25% (P.R.P.)         93.0         l/h           Fuel Cons. at 75% (P.R.P.)         93.0         l/h           Fuel Cons. at 75% (P.R.P.)         93.0         l/h           Fuel Cons. at 75% (P.R.P.)         93.0		3	
Sae       00-21         BMEP       1814       kPa         Cooling       Water       Flywheel P.R.P. Power net       1110.0       kW         Flywheel E.P. Power net       1220.0       kW         Fuel Cons. at 100% (E.P.)       294.0       l/h         Fuel Cons. at 100% (P.R.P)       269.0       l/h         Fuel Cons. at 75% (P.R.P.)       203.0       l/h         Fuel Cons. at 50% (P.R.P.)       151.0       l/h         Fuel Cons. at 25% (P.R.P.)       93.0       l/h         Electronic regulator       Standard       Standard         Precision class       G3       G3         Oil quantity       180.0       I         Engine Antifreeze capacity       125.0       I         Radiator type       TE       TE         Heat from radiator       648.0       kW         Heat from exhaust       758.0       kW         Heat from radiation       77.8       kW         Exhaust temperature       0       °C         Combustion air flow       89.0       m³/min         Exhaust gas flow       235.0       m³/min         TA Luft       N         EPA       N       N	J.	24	
BMEP       1814       kPa         Cooling       Water       Water         Flywheel P.R.P. Power net       1110.0       kW         Flywheel E.P. Power net       1220.0       kW         Fuel Cons. at 100% (E.P.)       294.0       l/h         Fuel Cons. at 100% (P.R.P)       269.0       l/h         Fuel Cons. at 75% (P.R.P.)       203.0       l/h         Fuel Cons. at 50% (P.R.P.)       93.0       l/h         Fuel Cons. at 25% (P.R.P.)       93.0       l/h         Electronic regulator       Standard       Precision class       G3         Oil quantity       180.0       l         Engine Antifreeze capacity       125.0       l         Radiator type       TE       TE         Heat from radiator       648.0       kW         Heat from exhaust       758.0       kW         Heat from radiation       77.8       kW         Exhaust temperature       0       °C         Combustion air flow       89.0       m³/min         Exhaust gas flow       235.0       m³/min         TA Luft       N         EPA       N			Vdc
Cooling         Water           Flywheel P.R.P. Power net         1110.0 kW           Flywheel E.P. Power net         1220.0 kW           Fuel Cons. at 100% (E.P.)         294.0 l/h           Fuel Cons. at 100% (P.R.P)         269.0 l/h           Fuel Cons. at 75% (P.R.P.)         203.0 l/h           Fuel Cons. at 50% (P.R.P.)         151.0 l/h           Fuel Cons. at 25% (P.R.P.)         93.0 l/h           Electronic regulator         Standard           Precision class         G3           Oil quantity         180.0 l           Engine Antifreeze capacity         125.0 l           Radiator type         TE           Heat from radiator         648.0 kW           Heat from exhaust         758.0 kW           Heat from radiation         77.8 kW           Exhaust temperature         0 °C           Combustion air flow         89.0 m³/min           Exhaust gas flow         235.0 m³/min           TA Luft         N           TA Luft/2         N           EPA         N			
Flywheel P.R.P. Power net  Flywheel E.P. Power net  Fuel Cons. at 100% (E.P.)  Fuel Cons. at 100% (P.R.P)  Fuel Cons. at 75% (P.R.P.)  Fuel Cons. at 50% (P.R.P.)  Fuel Cons. at 55% (P.R.P.)  Fuel Cons. at 25% (P.R.P.)  Fuel Cons. at 100% (P.R.P.)  Fuel Cons. at 200% (P.R.P.)  Fuel Cons. at 200%	ВМЕР	1814	kPa
Flywheel E.P. Power net         1220.0 kW           Fuel Cons. at 100% (E.P.)         294.0 l/h           Fuel Cons. at 100% (P.R.P)         269.0 l/h           Fuel Cons. at 75% (P.R.P.)         203.0 l/h           Fuel Cons. at 50% (P.R.P.)         151.0 l/h           Fuel Cons. at 25% (P.R.P.)         93.0 l/h           Electronic regulator         Standard           Precision class         G3           Oil quantity         180.0 l           Engine Antifreeze capacity         125.0 l           Radiator type         TE           Heat from radiator         648.0 kW           Heat from exhaust         758.0 kW           Heat from radiation         77.8 kW           Exhaust temperature         0 °C           Combustion air flow         89.0 m³/min           Exhaust gas flow         235.0 m³/min           TA Luft         N           TA Luft/2         N           EPA         N	Cooling	Water	
Fuel Cons. at 100% (E.P.)       294.0 l/h         Fuel Cons. at 100% (P.R.P)       269.0 l/h         Fuel Cons. at 75% (P.R.P.)       203.0 l/h         Fuel Cons. at 50% (P.R.P.)       151.0 l/h         Fuel Cons. at 25% (P.R.P.)       93.0 l/h         Electronic regulator       Standard         Precision class       G3         Oil quantity       180.0 l         Engine Antifreeze capacity       125.0 l         Radiator type       TE         Heat from radiator       648.0 kW         Heat from exhaust       758.0 kW         Heat from radiation       77.8 kW         Exhaust temperature       0 °C         Combustion air flow       89.0 m³/min         Exhaust gas flow       235.0 m³/min         TA Luft       N         TA Luft/2       N         EPA       N	Flywheel P.R.P. Power net	1110.0	kW
Fuel Cons. at 100% (P.R.P)       269.0 l/h         Fuel Cons. at 75% (P.R.P.)       203.0 l/h         Fuel Cons. at 50% (P.R.P.)       151.0 l/h         Fuel Cons. at 25% (P.R.P.)       93.0 l/h         Electronic regulator       Standard         Precision class       G3         Oil quantity       180.0 l         Engine Antifreeze capacity       125.0 l         Radiator type       TE         Heat from radiator       648.0 kW         Heat from exhaust       758.0 kW         Heat from radiation       77.8 kW         Exhaust temperature       0 °C         Combustion air flow       89.0 m³/min         Exhaust gas flow       235.0 m³/min         TA Luft       N         TA Luft/2       N         EPA       N	Flywheel E.P. Power net	1220.0	kW
Fuel Cons. at 75% (P.R.P.)       203.0 l/h         Fuel Cons. at 50% (P.R.P.)       151.0 l/h         Fuel Cons. at 25% (P.R.P.)       93.0 l/h         Electronic regulator       Standard         Precision class       G3         Oil quantity       180.0 l         Engine Antifreeze capacity       125.0 l         Radiator type       TE         Heat from radiator       648.0 kW         Heat from exhaust       758.0 kW         Heat from radiation       77.8 kW         Exhaust temperature       0 °C         Combustion air flow       89.0 m³/min         Exhaust gas flow       235.0 m³/min         TA Luft       N         TA Luft/2       N         EPA       N	Fuel Cons. at 100% (E.P.)	294.0	l/h
Fuel Cons. at 50% (P.R.P.)         151.0 l/h           Fuel Cons. at 25% (P.R.P.)         93.0 l/h           Electronic regulator         Standard           Precision class         G3           Oil quantity         180.0 l           Engine Antifreeze capacity         125.0 l           Radiator type         TE           Heat from radiator         648.0 kW           Heat from exhaust         758.0 kW           Heat from radiation         77.8 kW           Exhaust temperature         0 °C           Combustion air flow         89.0 m³/min           Exhaust gas flow         235.0 m³/min           TA Luft         N           TA Luft/2         N           EPA         N	Fuel Cons. at 100% (P.R.P)	269.0	l/h
Fuel Cons. at 25% (P.R.P.)         93.0 l/h           Electronic regulator         Standard           Precision class         G3           Oil quantity         180.0 l           Engine Antifreeze capacity         125.0 l           Radiator type         TE           Heat from radiator         648.0 kW           Heat from exhaust         758.0 kW           Heat from radiation         77.8 kW           Exhaust temperature         0 °C           Combustion air flow         89.0 m³/min           Exhaust gas flow         235.0 m³/min           TA Luft         N           TA Luft/2         N           EPA         N	Fuel Cons. at 75% (P.R.P.)	203.0	l/h
Electronic regulator         Standard           Precision class         G3           Oil quantity         180.0           Engine Antifreeze capacity         125.0           Radiator type         TE           Heat from radiator         648.0         kW           Heat from exhaust         758.0         kW           Heat from radiation         77.8         kW           Exhaust temperature         0         °C           Combustion air flow         89.0         m³/min           Exhaust gas flow         235.0         m³/min           TA Luft         N         N           EPA         N         N	Fuel Cons. at 50% (P.R.P.)	151.0	l/h
Precision class         G3           Oil quantity         180.0 I           Engine Antifreeze capacity         125.0 I           Radiator type         TE           Heat from radiator         648.0 kW           Heat from exhaust         758.0 kW           Heat from radiation         77.8 kW           Exhaust temperature         0 °C           0.0         0.0           Combustion air flow         89.0 m³/min           Exhaust gas flow         235.0 m³/min           TA Luft         N           TA Luft/2         N           EPA         N	Fuel Cons. at 25% (P.R.P.)	93.0	l/h
Oil quantity         180.0 I           Engine Antifreeze capacity         125.0 I           Radiator type         TE           Heat from radiator         648.0 kW           Heat from exhaust         758.0 kW           Heat from radiation         77.8 kW           Exhaust temperature         0 °C           Combustion air flow         89.0 m³/min           Exhaust gas flow         235.0 m³/min           TA Luft         N           TA Luft/2         N           EPA         N	Electronic regulator	Standard	
Engine Antifreeze capacity         125.0 I           Radiator type         TE           Heat from radiator         648.0 kW           Heat from exhaust         758.0 kW           Heat from radiation         77.8 kW           Exhaust temperature         0 °C           Combustion air flow         89.0 m³/min           Exhaust gas flow         235.0 m³/min           TA Luft         N           TA Luft/2         N           EPA         N	Precision class	G3	
Radiator type         TE           Heat from radiator         648.0 kW           Heat from exhaust         758.0 kW           Heat from radiation         77.8 kW           Exhaust temperature         0 °C           Combustion air flow         89.0 m³/min           Exhaust gas flow         235.0 m³/min           TA Luft         N           TA Luft/2         N           EPA         N	Oil quantity	180.0	I
Heat from radiator       648.0 kW         Heat from exhaust       758.0 kW         Heat from radiation       77.8 kW         Exhaust temperature       0 °C         Combustion air flow       89.0 m³/min         Exhaust gas flow       235.0 m³/min         TA Luft       N         TA Luft/2       N         EPA       N	Engine Antifreeze capacity	125.0	1
Heat from exhaust         758.0 kW           Heat from radiation         77.8 kW           Exhaust temperature         0 °C           0.0         0.0           Combustion air flow         89.0 m³/min           Exhaust gas flow         235.0 m³/min           TA Luft         N           TA Luft/2         N           EPA         N	Radiator type	TE	
Heat from radiation 77.8 kW  Exhaust temperature 0 °C  0.0  Combustion air flow 89.0 m³/min  Exhaust gas flow 235.0 m³/min  TA Luft N  TA Luft/2 N  EPA N	Heat from radiator	648.0	kW
Exhaust temperature 0 °C 0.0  Combustion air flow 89.0 m³/min  Exhaust gas flow 235.0 m³/min  TA Luft N  TA Luft/2 N  EPA N	Heat from exhaust	758.0	kW
Combustion air flow         89.0         m³/min           Exhaust gas flow         235.0         m³/min           TA Luft         N           TA Luft/2         N           EPA         N	Heat from radiation	77.8	kW
Combustion air flow 89.0 m³/min Exhaust gas flow 235.0 m³/min TA Luft N TA Luft/2 N EPA N	Exhaust temperature	0	°C
Exhaust gas flow 235.0 m³/min TA Luft N TA Luft/2 N EPA N		0.0	
TA Luft N TA Luft/2 N EPA N	Combustion air flow	89.0	m³/min
TA Luft/2 N EPA N	Exhaust gas flow	235.0	m³/min
EPA N	TA Luft	N	
	TA Luft/2	N	
Stage N	EPA	N	
	Stage	N	

MAIN DATA		
Continuous power (PRP)	1225.00	kVA
Continuous power (PRP)	980.00	kW
Emergency power (E.P.)	1310.00	kVA
Emergency power (E.P.)	1048.00	kW
VAC - HZ - cos(fi)	380 - 50 - 0.8	
Sound pressure 7 m.	78.0	dBA

DIMENSIONS AND WEIGHT		
Width	2200	mm
Length	8600	mm
Height	3400	mm
Weight	15000	kg

ALTERNATOR		
Description	STAMFORD	
Alternator model	PI734A	
P.R.P. Power	1225.0	kVA
E.P. Power	1310.0	kVA
Connection	Star	
Phases	3FN	
Winding	312	
Terminal Number	6	nr.
IP Protection	23	
Electronic regulator	MX341	
Precision	1.0	± %

BASEFRAME	
Model	ST60
Standard tank	0 1
Optional tank	0 1
Oversized tank*	0 1

CANOPY & SILENCER		
Canopy model	C60	
Silencer model	MSR/a 200	
Silencer outlet diameter	219.0	mm

Standard reference conditions temperature 25°C, altitude 100m asl, relative humidity 30%, atmospheric pressure 100 kPa (1 bar), power factor 0.8 lag, balanced load - non distortional. Fuel consumption is nominal and refers to specific weight 0.850kg/l. Sound power values refer to free field conditions: the installation site may influence the values. Dimensions, weights and other specifications contained in the technical data sheet and related attachments are nominal, subject to tolerances and refer to the model with standard equipment; any optional and additional equipment/accessories can modify weight, dimensions, performance. P.R.P. Prime Power-Continuous power at variable load: The power that a genset can supply in continuous service at a variable load for an unlimited number of hours per year while respecting the maintenance intervals established in the environmental conditions stated by the Manufacturer. according to ISO8528-1. The average power supplied over time and any applicable overload must be less than the percentages stated by the Manufacturer. E.P. - Emergency power: This is the maximum power that a generating set can deliver for a limited number of hours per year while complying with the maintenance frequency stipulated under the environmental conditions set by the Manufacturer. The number of hours per year is determined by the engine manufacturer. The average power output over time must be lower than the percentages set by the engine manufacturer. Overloading is not allowed.

The data contained in this document is nominal and refers to the standard equipped model and is not binding. Visa S.p.A. reserves the right to revise the information without notice per our policy of continuous product development and improvement.