## **TECHNICAL DATASHEET M 1400 U**

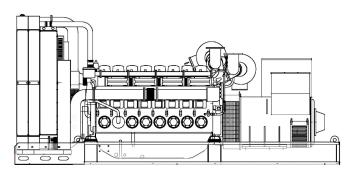


## M 1400 U





## **POWERFULL "U"**



For illustrative purposes only

ENGINE         MITSUBISHI           Description         MITSUBISHI           Engine model         \$12R-PTA2           Cylinders         12           RPM speed         1800           Cubic capacity         49.03           Air intake         Turbocharged           Standard voltage         24         Vdc           Optional voltage         Vdc           Sae         00-21         BMEP         1824         kPa           Cooling         Water         Flywheel P.R.P. Power net         1290.0         kW         Flywheel Stand-by Power net         1420.0         kW         Flywheel Stand-by Power net         1420.0         kW         Fuel Cons. at 100% (P.R.P.)         377.0         I/h         Fuel Cons. at 100% (P.R.P.)         377.0         I/h         Fuel Cons. at 50% (P.R.P.)         189.0         I/h         Fuel Cons. at 25% (P.R.P.)         189.0         I/h         Fuel Cons. at 25% (P.R.P.)         114.0         I/h         Fuel Cons. at 25% (P.R.P	Tor mustrative purposes only		
Engine model S12R-PTA2  Cylinders 12  RPM speed 1800  Cubic capacity 49.03    Air intake Turbocharged  Standard voltage 24 Vdc  Optional voltage Vdc  Sae 00-21  BMEP 1824 kPa  Cooling Water  Flywheel P.R.P. Power net 1290.0 kW  Flywheel Stand-by Power net 1420.0 kW  Fuel Cons. at 100% (L.T.P.) 377.0 l/h  Fuel Cons. at 100% (P.R.P) 344.0 l/h  Fuel Cons. at 55% (P.R.P.) 189.0 l/h  Fuel Cons. at 55% (P.R.P.) 114.0 l/h  Fuel Cons. at 25% (P.R.P.) 114.0 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 798.0 kW  Heat from exhaust 960.0 kW  Heat from radiation 95.8 kW  Exhaust temperature 0 °C  Portata Raffreddamento 1800.0 m³/min  Combustion air flow 290.0 m³/min  TA Luft N  TA Luft/2 N	ENGINE		
Cylinders         12           RPM speed         1800           Cubic capacity         49.03           Air intake         Turbocharged           Standard voltage         24         Vdc           Optional voltage         Vdc           Sae         00-21         BMEP         1824         kPa           Cooling         Water         Flywheel P.R.P. Power net         1290.0         kW         Flywheel Stand-by Power net         1420.0         kW         Flywheel Stand-by Power net         1420.0         kW         Fuel Cons. at 100% (L.T.P.)         377.0         I/h         Fuel Cons. at 100% (P.R.P.)         344.0         I/h         Fuel Cons. at 50% (P.R.P.)         189.0         I/h         Fuel Cons. at 50% (P.R.P.)         189.0         I/h         Fuel Cons. at 25% (P.R.P.)         114.0         I/h<	Description	MITSUBISHI	
RPM speed       1800         Cubic capacity       49.03       I         Air intake       Turbocharged         Standard voltage       24       Vdc         Optional voltage       Vdc         Sae       00-21       BMEP       1824       kPa         Cooling       Water       Flywheel P.R.P. Power net       1290.0       kW         Flywheel Stand-by Power net       1420.0       kW         Fuel Cons. at 100% (L.T.P.)       377.0       l/h         Fuel Cons. at 100% (P.R.P)       344.0       l/h         Fuel Cons. at 55% (P.R.P.)       262.0       l/h         Fuel Cons. at 25% (P.R.P.)       118.0       l/h         Fuel Cons. at 25% (P.R.P.)       114.0       l/h         Electronic regulator       Standard       Precision class       G3         Oil quantity       180.0       I         Engine Antifreeze capacity       125.0       I         Radiator type       TE         Heat from radiator       798.0       kW         Heat from radiation       95.8       kW         Exhaust temperature       0 °C         Portata Raffreddamento       180.0       m³/min         Exhaust gas flow	Engine model	S12R-PTA2	
Cubic capacity         49.03         I           Air intake         Turbocharged         Vdc           Standard voltage         24         Vdc           Optional voltage         Vdc         Vdc           Sae         00-21         BMEP         1824         kPa           Cooling         Water         Flywheel P.R.P. Power net         1290.0         kW           Flywheel Stand-by Power net         1420.0         kW           Fuel Cons. at 100% (L.T.P.)         377.0         I/h           Fuel Cons. at 100% (P.R.P)         344.0         I/h           Fuel Cons. at 75% (P.R.P.)         189.0         I/h           Fuel Cons. at 50% (P.R.P.)         189.0         I/h           Fuel Cons. at 25% (P.R.P.)         114.0         I/h           Fuel Cons. at 25% (P.R.P.)         114.0         I/h           Electronic regulator         Standard         Precision class         G3           Oil quantity         180.0         I           Engine Antifreeze capacity         125.0         I           Radiator type         TE         Heat from radiator         798.0         kW           Heat from radiation         95.8         kW           Exhaust temperature	Cylinders	12	
Air intake         Turbocharged           Standard voltage         24         Vdc           Optional voltage         Vdc           Sae         00-21         BMEP         1824         kPa           Cooling         Water         Flywheel P.R.P. Power net         1290.0         kW           Flywheel Stand-by Power net         1420.0         kW           Fluel Cons. at 100% (L.T.P.)         377.0         l/h           Fuel Cons. at 100% (P.R.P)         344.0         l/h           Fuel Cons. at 75% (P.R.P.)         262.0         l/h           Fuel Cons. at 50% (P.R.P.)         189.0         l/h           Fuel Cons. at 25% (P.R.P.)         114.0         l/h           Fuel Cons. at 25% (P.R.P.)         114.0         l/h           Fuel Cons. at 25% (P.R.P.)         114.0         l/h           Fuel Cons. at 25% (P.R.P.)         189.0         l/h           Fuel Cons. at 50% (P.R.P.)         189.0         l/h           Fuel Cons. at 25% (P.R.P.)         189.0         l/h           Fuel Cons. at 75% (P.R.P.)         189.0         l/h           Fuel Cons. at 75% (P.R.P.)         189.0         l/h           Fuel Cons. at 75% (P.R.P.)         189.0         l/h	RPM speed	1800	
Standard voltage         24         Vdc           Optional voltage         Vdc           Sae         00-21         BMEP           Cooling         Water         Water           Flywheel P.R.P. Power net         1290.0         kW           Flywheel Stand-by Power net         1420.0         kW           Fuel Cons. at 100% (L.T.P.)         377.0         l/h           Fuel Cons. at 100% (P.R.P)         344.0         l/h           Fuel Cons. at 75% (P.R.P.)         262.0         l/h           Fuel Cons. at 50% (P.R.P.)         189.0         l/h           Fuel Cons. at 25% (P.R.P.)         114.0         l/h           Fuel Cons. at 25% (P.R.P.)         189.0         l/h           Fuel Cons. at 75% (P.R.P.)         180.0         l           English at 25% (P.R.P.)         180.0         l           English at 25% (P.R.P.)         180.0         l	Cubic capacity	49.03	1
Optional voltage         Vdc           Sae         00-21           BMEP         1824         kPa           Cooling         Water         Flywheel P.R.P. Power net         1290.0         kW           Flywheel Stand-by Power net         1420.0         kW           Flywheel Stand-by Power net         1420.0         kW           Fuel Cons. at 100% (L.T.P.)         377.0         l/h           Fuel Cons. at 100% (P.R.P)         344.0         l/h           Fuel Cons. at 75% (P.R.P.)         189.0         l/h           Fuel Cons. at 25% (P.R.P.)         114.0         l/h           Fuel Cons. at 25% (P.R.P.)	Air intake	Turbocharged	
Sae       00-21         BMEP       1824       kPa         Cooling       Water         Flywheel P.R.P. Power net       1290.0       kW         Flywheel Stand-by Power net       1420.0       kW         Fuel Cons. at 100% (L.T.P.)       377.0       l/h         Fuel Cons. at 100% (P.R.P)       344.0       l/h         Fuel Cons. at 75% (P.R.P.)       262.0       l/h         Fuel Cons. at 50% (P.R.P.)       189.0       l/h         Fuel Cons. at 25% (P.R.P.)       114.0       l/h         Electronic regulator       Standard         Precision class       G3       O         Oil quantity       180.0       l         Engine Antifreeze capacity       125.0       l         Radiator type       TE       Heat from radiator       798.0       kW         Heat from radiator       798.0       kW         Heat from radiation       95.8       kW         Exhaust temperature       0 °C         Portata Raffreddamento       1800.0       m³/min         Combustion air flow       109.0       m³/min         Exhaust gas flow       290.0       m³/min         TA Luft /2       N         EPA	Standard voltage	24	Vdc
BMEP       1824       kPa         Cooling       Water       Flywheel P.R.P. Power net       1290.0       kW         Flywheel Stand-by Power net       1420.0       kW         Fuel Cons. at 100% (L.T.P.)       377.0       l/h         Fuel Cons. at 100% (P.R.P)       344.0       l/h         Fuel Cons. at 75% (P.R.P.)       262.0       l/h         Fuel Cons. at 50% (P.R.P.)       189.0       l/h         Fuel Cons. at 25% (P.R.P.)       114.0       l/h         Fuel Cons. at 25% (P.R.P.)       114.0       l/h         Electronic regulator       Standard       Precision class       G3         Oil quantity       180.0       I         Engine Antifreeze capacity       125.0       I         Radiator type       TE       T         Heat from radiator       798.0       kW         Heat from exhaust       960.0       kW         Heat from radiation       95.8       kW         Exhaust temperature       0 °C       Portata Raffreddamento       1800.0       m³/min         Combustion air flow       109.0       m³/min         Exhaust gas flow       290.0       m³/min         TA Luft /2       N         EPA </td <td>Optional voltage</td> <td></td> <td>Vdc</td>	Optional voltage		Vdc
Cooling         Water           Flywheel P.R.P. Power net         1290.0 kW           Flywheel Stand-by Power net         1420.0 kW           Fuel Cons. at 100% (L.T.P.)         377.0 l/h           Fuel Cons. at 100% (P.R.P)         344.0 l/h           Fuel Cons. at 75% (P.R.P.)         262.0 l/h           Fuel Cons. at 50% (P.R.P.)         189.0 l/h           Fuel Cons. at 25% (P.R.P.)         114.0 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         798.0 kW           Heat from exhaust         960.0 kW           Heat from radiation         95.8 kW           Exhaust temperature         0 °C           Portata Raffreddamento         1800.0 m³/min           Combustion air flow         109.0 m³/min           Exhaust gas flow         290.0 m³/min           TA Luft         N           EPA         N	Sae	00-21	
Flywheel P.R.P. Power net         1290.0 kW           Flywheel Stand-by Power net         1420.0 kW           Fuel Cons. at 100% (L.T.P.)         377.0 l/h           Fuel Cons. at 100% (P.R.P)         344.0 l/h           Fuel Cons. at 75% (P.R.P.)         262.0 l/h           Fuel Cons. at 50% (P.R.P.)         189.0 l/h           Fuel Cons. at 25% (P.R.P.)         114.0 l/h           Fleetronic regulator         Standard           Precision class         G3           Oil quantity         180.0 l           Engine Antifreeze capacity         125.0 l           Radiator type         TE           Heat from radiator         798.0 kW           Heat from exhaust         960.0 kW           Heat from radiation         95.8 kW           Exhaust temperature         0 °C           Portata Raffreddamento         1800.0 m³/min           Combustion air flow         109.0 m³/min           Exhaust gas flow         290.0 m³/min           TA Luft         N           TA Luft/2         N           EPA         N	ВМЕР	1824	kPa
Flywheel Stand-by Power net       1420.0 kW         Fuel Cons. at 100% (L.T.P.)       377.0 l/h         Fuel Cons. at 100% (P.R.P)       344.0 l/h         Fuel Cons. at 75% (P.R.P.)       262.0 l/h         Fuel Cons. at 50% (P.R.P.)       189.0 l/h         Fuel Cons. at 25% (P.R.P.)       114.0 l/h         Fuel Cons. at 25% (P.R.P.)       114.0 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       798.0 kW         Heat from exhaust       960.0 kW         Heat from radiation       95.8 kW         Exhaust temperature       0 °C         Portata Raffreddamento       1800.0 m³/min         Combustion air flow       109.0 m³/min         Exhaust gas flow       290.0 m³/min         TA Luft       N         EPA       N	Cooling	Water	
Fuel Cons. at 100% (L.T.P.)       377.0 l/h         Fuel Cons. at 100% (P.R.P)       344.0 l/h         Fuel Cons. at 75% (P.R.P.)       262.0 l/h         Fuel Cons. at 50% (P.R.P.)       189.0 l/h         Fuel Cons. at 25% (P.R.P.)       114.0 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       798.0 kW         Heat from exhaust       960.0 kW         Heat from radiation       95.8 kW         Exhaust temperature       0 °C         Portata Raffreddamento       1800.0 m³/min         Combustion air flow       109.0 m³/min         Exhaust gas flow       290.0 m³/min         TA Luft       N         TA Luft/2       N         EPA       N	Flywheel P.R.P. Power net	1290.0	kW
Fuel Cons. at 100% (P.R.P)       344.0 l/h         Fuel Cons. at 75% (P.R.P.)       262.0 l/h         Fuel Cons. at 50% (P.R.P.)       189.0 l/h         Fuel Cons. at 25% (P.R.P.)       114.0 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       798.0 kW         Heat from exhaust       960.0 kW         Heat from radiation       95.8 kW         Exhaust temperature       0 °C         Portata Raffreddamento       1800.0 m³/min         Combustion air flow       109.0 m³/min         Exhaust gas flow       290.0 m³/min         TA Luft       N         TA Luft/2       N         EPA       N	Flywheel Stand-by Power net	1420.0	kW
Fuel Cons. at 75% (P.R.P.)       262.0 l/h         Fuel Cons. at 50% (P.R.P.)       189.0 l/h         Fuel Cons. at 25% (P.R.P.)       114.0 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       798.0 kW         Heat from exhaust       960.0 kW         Heat from radiation       95.8 kW         Exhaust temperature       0 °C         Portata Raffreddamento       1800.0 m³/min         Combustion air flow       109.0 m³/min         Exhaust gas flow       290.0 m³/min         TA Luft       N         TA Luft/2       N         EPA       N	Fuel Cons. at 100% (L.T.P.)	377.0	l/h
Fuel Cons. at 50% (P.R.P.)         189.0 l/h           Fuel Cons. at 25% (P.R.P.)         114.0 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         798.0 kW           Heat from exhaust         960.0 kW           Heat from radiation         95.8 kW           Exhaust temperature         0 °C           Portata Raffreddamento         1800.0 m³/min           Combustion air flow         109.0 m³/min           Exhaust gas flow         290.0 m³/min           TA Luft         N           TA Luft/2         N           EPA         N	Fuel Cons. at 100% (P.R.P)	344.0	l/h
Fuel Cons. at 25% (P.R.P.)         114.0         I/h           Electronic regulator         Standard           Precision class         G3           Oil quantity         180.0         I           Engine Antifreeze capacity         125.0         I           Radiator type         TE         Heat from radiator         798.0         kW           Heat from exhaust         960.0         kW           Heat from radiation         95.8         kW           Exhaust temperature         0         °C           Portata Raffreddamento         1800.0         m³/min           Combustion air flow         109.0         m³/min           Exhaust gas flow         290.0         m³/min           TA Luft         N         N           EPA         N         N	Fuel Cons. at 75% (P.R.P.)	262.0	l/h
Electronic regulator         Standard           Precision class         G3           Oil quantity         180.0           Engine Antifreeze capacity         125.0           Radiator type         TE           Heat from radiator         798.0         kW           Heat from exhaust         960.0         kW           Heat from radiation         95.8         kW           Exhaust temperature         0         °C           Portata Raffreddamento         1800.0         m³/min           Combustion air flow         109.0         m³/min           Exhaust gas flow         290.0         m³/min           TA Luft         N         TA Luft/2           EPA         N         TA Luft/2	Fuel Cons. at 50% (P.R.P.)	189.0	l/h
Precision class G3 Oil quantity 180.0   Engine Antifreeze capacity 125.0   Radiator type TE Heat from radiator 798.0 kW Heat from exhaust 960.0 kW Heat from radiation 95.8 kW Exhaust temperature 0 °C Portata Raffreddamento 1800.0 m³/min Combustion air flow 109.0 m³/min Exhaust gas flow 290.0 m³/min TA Luft N TA Luft/2 N EPA N	Fuel Cons. at 25% (P.R.P.)	114.0	l/h
Oil quantity         180.0             Engine Antifreeze capacity         125.0             Radiator type         TE           Heat from radiator         798.0           kW           Heat from exhaust         960.0           kW           Heat from radiation         95.8           kW           Exhaust temperature         0 °C           Portata Raffreddamento         1800.0           m³/min           Combustion air flow         109.0           m³/min           Exhaust gas flow         290.0           m³/min           TA Luft         N         N           EPA         N	Electronic regulator	Standard	
Engine Antifreeze capacity  Radiator type  TE  Heat from radiator  Heat from exhaust  Heat from radiation  Fixhaust temperature  Portata Raffreddamento  Combustion air flow  TA Luft  TA Luft/2  EPA  ID  TE  125.0  I	Precision class	G3	
Radiator type  Heat from radiator  Heat from exhaust  Heat from radiation  Final district temperature  Final distr	Oil quantity	180.0	I
Heat from radiator 798.0 kW Heat from exhaust 960.0 kW Heat from radiation 95.8 kW Exhaust temperature 0 °C Portata Raffreddamento 1800.0 m³/min Combustion air flow 109.0 m³/min Exhaust gas flow 290.0 m³/min TA Luft N TA Luft/2 N EPA N	Engine Antifreeze capacity	125.0	I
Heat from exhaust 960.0 kW Heat from radiation 95.8 kW Exhaust temperature 0 °C Portata Raffreddamento 1800.0 m³/min Combustion air flow 109.0 m³/min Exhaust gas flow 290.0 m³/min TA Luft N TA Luft/2 N EPA N	Radiator type	TE	
Heat from radiation 95.8 kW  Exhaust temperature 0 °C  Portata Raffreddamento 1800.0 m³/min  Combustion air flow 109.0 m³/min  Exhaust gas flow 290.0 m³/min  TA Luft N  TA Luft/2 N  EPA N	Heat from radiator	798.0	kW
Exhaust temperature 0 °C  Portata Raffreddamento 1800.0 m³/min  Combustion air flow 109.0 m³/min  Exhaust gas flow 290.0 m³/min  TA Luft N  TA Luft/2 N  EPA N	Heat from exhaust	960.0	kW
Portata Raffreddamento 1800.0 m³/min Combustion air flow 109.0 m³/min Exhaust gas flow 290.0 m³/min TA Luft N TA Luft/2 N EPA N	Heat from radiation	95.8	kW
Combustion air flow 109.0 m³/min Exhaust gas flow 290.0 m³/min TA Luft N TA Luft/2 N EPA N	Exhaust temperature	0	°C
Exhaust gas flow 290.0 m³/min TA Luft N TA Luft/2 N EPA N	Portata Raffreddamento	1800.0	m³/min
TA Luft N TA Luft/2 N EPA N	Combustion air flow	109.0	m³/min
TA Luft/2 N EPA N	Exhaust gas flow	290.0	m³/min
EPA N	TA Luft	N	
	TA Luft/2	N	
Stage	EPA	N	
	Stage	N	

MAIN DATA		
Continuous power (PRP)	1540.00	kVA
Continuous power (PRP)	1232.00	kW
Stand-by power (LTP)	1700.00	kVA
Stand-by power (LTP)	1360.00	kW
VAC - HZ - cos(fi)	480 - 60 - 0.8	

DIMENSIONS AND WEIGHT		
Width	2000	mm
Length	4530	mm
Height	2242	mm
Weight	11000	kg

ALTERNATOR	
Description	STAMFORD
Alternator model	PI734B
P.R.P. Power	1690 kVA
L.T.P. Power	1810 kVA
Connection	Star
Phases	3FN
Winding	312
Terminal Number	6 nr.
IP Protection	23
Electronic regulator	MX341
Precision	1 ± %

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

<b>CANOPY &amp; SILENCER</b>		
Canopy model	SENZA COFANO	
Silencer model	MS 55	
Silencer outlet diameter	324 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. L.T.P. Limited-time running power-Limited power: The maximum power that a genset can supply for a limited time respecting the maintenance intervals established in the environmental conditions stated by the Manufacturer according to ISO 8528-1. The number of hours per year is stated by the Manufacturer. Overload is not permitted.

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.