



PRODUCT COMPARISON

60Hz Commercial and Industrial Generator Series

1063_8.9.24

	70kW	125kW	170kW
Genset Information	8NA-S-MSV1-DF-400F	8T-S-MVS1-DF-400F	11L-S-MVS1-DF-400F
Frequency	60 Hz	60 Hz	60 Hz
Voltage	480 V	480 V	480 V
NG Prime Power Rating	70 kW 87 kVA	125 kW 156 kVA	170 kW 212 kVA
LP Prime Power Rating	70 kW 87 kVA	105 kW 131 kVA	125 kW 156 kVA
Genset Dimensions L x W x H	272 x 87 x 116"	272 x 87 x 116"	272 x 87 x 116"
Wet Weight	9,689 lbs	10,029 lbs	10,929 lbs
Engine Information			
Engine Model	PSI 8.1L	PSI 8.1L	PSI 11.1L
Nameplate Rating	88 kW 118 hp	150 kW 201 hp	200 kW 268 hp
Displacement	8.1 L 492 in ³	8.1 L 492 in ³	11.1 L 673 in ³
Cylinder Arrangement	6 Cylinders Inline	6 Cylinders Inline	6 Cylinders Inline
Aspiration Mode	Natural	Turbocharged	Turbocharged
Engine Speed - rpm	1,800 rpm	1,800 rpm	1,800 rpm
Emission Control			
AFR Controller	Yes	Yes	Yes
NSCR Catalyst	Yes	Yes	Yes
Alternator			
Manufacturer	Stamford	Stamford	Stamford
Alternator Model	UCI274E Wdg. 311	UCI274G Wdg. 311	UCDI274J Wdg. 311
Rated Power Factor	0.8 PF	0.8 PF	0.8 PF
Rating	143 kW 179 kVA	185 kW 231 kVA	240 kW 300 kVA
Excitation Type	PMG	PMG	PMG
Temp. Rise / Ambient	125 / 40°C	125 / 40°C	125 / 40°C
Control system			
Controller Type	DSE 8610 MKII	DSE 8610 MKII	DSE 8610 MKII
Synchronizing & Load Sharing	Yes	Yes	Yes
Telemetry & Remote Monitoring	Yes	Yes	Yes

Pg.1

Continued on second page →

RATINGS: A Prime and overload ratings are based on ISO 8528. All three-phase units are rated at 0.8 power factor. The prime rating applies when supplying electric power using generator sets in lieu of or in addition to a utility source. The prime rating is applicable to varying loads with an average load factor of 80% for an unlimited number of hours per year. An overload capacity of 10% is specified for this rating.

FUEL SPECIFICATION: Gas properties for fuel consumption data: NG: Density = 0.737 kg/m³, HHV = 1041 Btu/scf (39 MJ/m³); Propane: Density = 1.845 kg/m³, HHV = 2538 Btu/scf (95 MJ/m³); LPG (60-40): Density = 2.060 kg/m³, HHV = 2817 Btu/scf (105 MJ/m³)

FUEL TYPE: Actual power ratings and performance are based on methane number (MN) of fuel type. Engine configuration is factory optimized for NG and its associated high MN. LP has a considerably lower MN than NG. To prevent engine knock (detonation) when operating on LP, it can be necessary to apply a power derate.



PRODUCT COMPARISON

60Hz Commercial and Industrial Generator Series

1063_8.9.24

Pg. 2

	250kW	350kW	390kW
Genset Information	14L-S-MVS1-DF-400F	22L-S-MVS1-DF-400F	
Frequency	60 Hz	60 Hz	60 Hz
Voltage	480 V	480 V	480 V
NG Prime Power Rating	250 kW 312 kVA	350 kW 438 kVA	390 kW 488 kVA
LP Prime Power Rating	225 kW 281 kVA	310 kW 388 kVA	315kW 394 kVA
Genset Dimensions L x W x H	260 x 103 x 124"	260 x 103 x 124"	260 x 103 x 125"
Wet Weight	15,289 lbs	16,989 lbs	18,139 lbs
Engine Information			
Engine Model	PSI 14.6L	PSI 21.9L	Mesa/HDI GV22PU
Nameplate Rating	290 kW 389 hp	434 kW 581 hp	500 kW 671 hp
Displacement	14.6 L 891 in ³	21.9 L 1336 in ³	21.9 L 1,336 in ³
Cylinder Arrangement	8 Cylinders V-type	12 Cylinders V-type	12 Cylinders V-type
Aspiration Mode	Turbocharged	Turbocharged	Turbocharged
Engine Speed - rpm	1,800 rpm	1,800 rpm	1,800 rpm
Emission Control			
AFR Controller	Yes	Yes	Yes
NSCR Catalyst	Yes	Yes	Yes
Alternator			
Manufacturer	Stamford	Stamford	WEG
Alternator Model	S4L1D-D41 Wdg. 311	S4L1D-G4 Wdg. 311	AG10 280MI70AI
Rated Power Factor	0.8 PF	0.8 PF	0.8 PF
Rating	312 kW 390 kVA	450 kW 563 kVA	456 kW 570 kVA
Excitation Type	PMG	PMG	I-PMG (auxiliary coil)
Temp. Rise / Ambient	125 / 40°C	125 / 40°C	125 / 40°C
Control system			
Controller Type	DSE 8610 MKII	DSE 8610 MKII	DSE 8610 MKII
Synchronizing & Load Sharing	Yes	Yes	Yes
Telemetry & Remote Monitoring	Yes	Yes	Yes

RATINGS: A Prime and overload ratings are based on ISO 8528. All three-phase units are rated at 0.8 power factor. The prime rating applies when supplying electric power using generator sets in lieu of or in addition to a utility source. The prime rating is applicable to varying loads with an average load factor of 80% for an unlimited number of hours per year. An overload capacity of 10% is specified for this rating.

FUEL SPECIFICATION: Gas properties for fuel consumption data: NG: Density = 0.737 kg/m³, HHV = 1041 Btu/scf (39 MJ/m³); Propane: Density = 1.845 kg/m³, HHV = 2538 Btu/scf (95 MJ/m³); LPG (60-40): Density = 2.060 kg/m³, HHV = 2817 Btu/scf (105 MJ/m³)

FUEL TYPE: Actual power ratings and performance are based on methane number (MN) of fuel type. Engine configuration is factory optimized for NG and its associated high MN. LP has a considerably lower MN than NG. To prevent engine knock (detonation) when operating on LP, it can be necessary to apply a power derate.



PRODUCT COMPARISON

60Hz Commercial and Industrial Generator Series

1063_8.9.24

	70kW	125kW	170kW	250kW	350kW	390kW
Genset Information	8NA-S-MSV1-DF-400F	8T-S-MVS1-DF-400F	11L-S-MVS1-DF-400F	14L-S-MVS1-DF-400F	22L-S-MVS1-DF-400F	
Frequency	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Voltage	480 V	480 V	480 V	480 V	480 V	480 V
NG Prime Power Rating	70 kW 87 kVA	125 kW 156 kVA	170 kW 212 kVA	250 kW 312 kVA	350 kW 438 kVA	390 kW 488 kVA
LP Prime Power Rating	70 kW 87 kVA	105 kW 131 kVA	125 kW 156 kVA	225 kW 281 kVA	310 kW 388 kVA	315kW 394 kVA
Genset Dimensions L x W x H	272 x 87 x 116"	272 x 87 x 116"	272 x 87 x 116"	260 x 103 x 124"	260 x 103 x 124"	260 x 103 x 125"
Wet Weight	9,689 lbs	10,029 lbs	10,929 lbs	15,289 lbs	16,989 lbs	18,139 lbs
Engine Information						
Engine Model	PSI 8.1L	PSI 8.1L	PSI 11.1L	PSI 14.6L	PSI 21.9L	Mesa/HDI GV22PU
Nameplate Rating	88 kW 118 hp	150 kW 201 hp	200 kW 268 hp	290 kW 389 hp	434 kW 581 hp	460 kW 617 hp
Displacement	8.1 L 492 in ³	8.1 L 492 in ³	11.1 L 673 in ³	14.6 L 891 in ³	21.9 L 1336 in ³	21.9 L 1,336 in ³
Cylinder Arrangement	6 Cylinders Inline	6 Cylinders Inline	6 Cylinders Inline	8 Cylinders V-type	12 Cylinders V-type	12 Cylinders V-type
Aspiration Mode	Natural	Turbocharged	Turbocharged	Turbocharged	Turbocharged	Turbocharged
Engine Speed - rpm	1,800 rpm	1,800 rpm	1,800 rpm	1,800 rpm	1,800 rpm	1,800 rpm
Emission Control						
AFR Controller	Yes	Yes	Yes	Yes	Yes	Yes
NSCR Catalyst	Yes	Yes	Yes	Yes	Yes	Yes
Alternator						
Manufacturer	Stamford	Stamford	Stamford	Stamford	Stamford	WEG
Alternator Model	UCI274E Wdg. 311	UCI274G Wdg. 311	UCDI274J Wdg. 311	S4L1D-D41 Wdg. 311	S4L1D-G4 Wdg. 311	AG10 280MI70AI
Rated Power Factor	0.8 PF	0.8 PF	0.8 PF	0.8 PF	0.8 PF	0.8 PF
Rating	143 kW 179 kVA	185 kW 231 kVA	240 kW 300 kVA	312 kW 390 kVA	450 kW 563 kVA	456 kW 570 kVA
Excitation Type	PMG	PMG	PMG	PMG	PMG	I-PMG (auxiliary coil)
Temp. Rise / Ambient	125 / 40°C	125 / 40°C	125 / 40°C	125 / 40°C	125 / 40°C	125 / 40°C
Control system						
Controller Type	DSE 8610 MKII	DSE 8610 MKII	DSE 8610 MKII	DSE 8610 MKII	DSE 8610 MKII	DSE 8610 MKII
Synchronizing & Load Sharing	Yes	Yes	Yes	Yes	Yes	Yes
Telemetry & Remote Monitoring	Yes	Yes	Yes	Yes	Yes	Yes

RATINGS: A Prime and overload ratings are based on ISO 8528. All three-phase units are rated at 0.8 power factor. The prime rating applies when supplying electric power using generator sets in lieu of or in addition to a utility source. The prime rating is applicable to varying loads with an average load factor of 80% for an unlimited number of hours per year. An overload capacity of 10% is specified for this rating.

FUEL SPECIFICATION: Gas properties for fuel consumption data: NG: Density = 0.737 kg/m³, HHV = 1041 Btu/scf (39 MJ/m³); Propane: Density = 1.845 kg/m³, HHV = 2538 Btu/scf (95 MJ/m³); LPG (60-40): Density = 2.060 kg/m³, HHV = 2817 Btu/scf (105 MJ/m³)

FUEL TYPE: Actual power ratings and performance are based on methane number (MN) of fuel type. Engine configuration is factory optimized for NG and its associated high MN. LP has a considerably lower MN than NG. To prevent engine knock (detonation) when operating on LP, it can be necessary to apply a power derate.