

Mitsubishi Generating Sets

Model	Engine	Stand-by (kW)	Prime (kW)
TJ9MS5N	S3L2-61SD	9	8
TJ10MS5N	L2E-61SD	10	8
TJ11MS5N	L3E-61SDH	11	10
TJ15MS5N	S4L2-61SD	15	13
TJ16MS5K	S4L2-61SD	16	14
TJ16MS5A	S4L2-61SDH	16	14
TJ20MS5N	S3L2-61SDH	20	18
TJ21MS5K	S4Q2-61SD	21	20
TJ22MS5A	S4Q2-61SD	22	20
TJ27MS5N	S4L2-61SDH	27	23
TJ33MS5K	S4S-61SD	33	30
TJ34MS5A	S4S-61SD	34	30
TJ41MS5K	S4SDT-61SD	41	40



Mitsubishi Generating Sets

Model	Engine	Stand-by (kW)	Prime (kW)
TJ42MS5A	S4SDT-61SD	42	40
TJ50MS5A	S6S-65SG	50	45
TJ51MS5A	S6S-65SG	51	46
TJ66MS5K	S6SDT-65SG	66	60
TJ67MS5A	S6SDT-65SG	67	61
TJ1425MS5A	S12R-PTA	1425	1293
TJ1540MS5A	S12R-PTA2	1540	1397
TJ1900MS5A	S16R-PTA	1912	1744
TJ2100MS5A	S16R-PTA2	2090	1898
TJ2200MS5A	S16R-PTAA2	2200	2000
TJ2280MS5A	S16R-PTAA2	2279	2025





Doosan Generating Sets

Model	Engine	Stand-by (kW)	Prime (kW)
TJ94DW5A	D1146	94	85
TJ116DW5A	D1146T	116	105
TJ134DW5A	D1146T	134	121
TJ180DW5A	P086TI	180	165
TJ205DW5A	P086TI	205	185
TJ232DW5A	P086TI	232	206
TJ275DW5A	P126TI-II	275	250
TJ330DW5A	P126TI-II	330	300
TJ385DW5A	P158LE-1	385	350
TJ405DW5A	P158LE-1	405	364
TJ450DW5A	P158LE	450	406
TJ486DW5A	P158LE	486	427
TJ500DW5A	P158LE-S	500	450
TJ518DW5A	P158LE-S	518	472
TJ560DW5A	P180LE	560	502
TJ587DW5A	P180LE	587	524
TJ660DW5A	P222LE	660	611
TJ695DW5A	P222LE-S	695	634
TJ750DW5A	P222LE-II	750	N/A
TJ774DW5A	P222LE-II	774	N/A



2010 / 2011



Vehicle Generators



Fischer Panda[®]

*Power
wherever
you are*[™]



Panda PVK-UK

Panda Vehicle Generator "Compact Construction" with integrated cooling system for mounting externally on the vehicle chassis



- Designed for external mounting
- Assembly bolts pre-fitted to housing
- Metal capsule with a heavy duty cover
- Wide access hatch for easier access
- Sound insulation capsule
- Water-cooled exhaust silencer inside capsule
- No additional exhaust silencer required
- **Integrated radiator and cooling system**

Panda PSC

Panda Self Contained generators are complete "turnkey" units fitted with an integrated cooling system, fuel tank and electrical cabinet.



- Integrated fuel tank
- Vertically or horizontally mounted radiator
- Suitable for external mounting
- Sound insulation capsule
- Water-cooled exhaust silencer inside capsule
- No additional exhaust silencer required
- **Integrated radiator and cooling system**

Technical Data for Fischer Panda Vehicle Generators iSeries - Inverter Line

The Fischer Panda iSeries Generators take full advantage of modern diesel engines which are designed to run at lower speeds and fulfil current emission standards. The speed of the engine is adjusted according to the electrical load which makes it economical to run. These generators are ideal for powering varying load profiles.

*) For inverter generators: performance is calculated with a cosPhi factor = 0,8 up to 40°C ambient temperature, otherwise calculate with a factor 1 up to 50°C. Dimensions and weights are approximate values only. Please confirm current dimensions and weights when ordering.

Premium Line NE (and HD) Versions

The asynchronous Panda generator NE and HD versions have been fitted for many years with the tried and tested Voltage Control System (VCS) whereby the motor speed is progressively controlled. This has an enormously positive effect on the exhaust emission and ensures that the generator achieves up to 15 % more effective performance than other non-controlled generators. The VCS adjusts the voltage with a tolerance of ±3 volts in the range up to 80% of the nominal performance. An external AC control box contains the VCS and the capacitors which are used for boosting the starting current (standard for Premium Line generators up to Panda 18NE).

*) For asynchronous generators up to and including P15000: the KVA is calculated with cosPhi = 0.85 for a short starting performance of inductive consumers. Otherwise it should be calculated with a factor of 1. Generators above and including Panda 16 are calculated with an optional start performance with compensation or starting current booster, otherwise it should be calculated with a factor of 1.

Panda Generator Model / Type	Generator Nominal Performance						Voltage Tolerance	Engine Manufacturer	Engine Type	Displacement cm ³	No. of Cylinders	Sound Level 7m / 3m / 1m (dbA)
	HP1		HP3		DVS							
	230 V 1-phase 50 Hz	400 V 3-phase 50 Hz	230/400 V 1plus 3-phase 50 Hz	(kW)	(kVA*)	(kW)						
Inverter Line - Panda Generators with variable speed technology												
Panda 5000i	0-4.4	5	-	-	-	-	±3V	Kubota	EA300	309	1	54/64/68
Panda 8000i	0-6.0	8.0	-	-	-	-	±3V	Kubota	Z482	479	2	52/62/67
Panda 15000i	0-12.0	15.0	-	-	-	-	±3V	Kubota	D 902	898	3	request
Panda 45i			0-36.0	45.0			±3V	Kubota	V 2403 T	2434	4	request
Premium Line Panda NE Generators - 3000 rpm - 50 Hz Panda Vehicle Generators with VCS Voltage Control System												
Panda 8000	6.8	8.0	6.8	8.0	6.0	6.0	±3V	Kubota	Z 482	479	2	52/62/67
Panda 10000	8.0	9.0	8.0	9.0	7.0	7.0	±3V	Kubota	Z 602	599	2	52/62/67
Panda 12000	10.2	12.0	10.2	12.0	9.0	9.0	±3V	Kubota	D 722	719	3	53/63/67
Panda 15000	12.7	15.0	12.7	15.0	11.1	11.1	±3V	Kubota	D 902	898	3	54/64/68
Panda 18	15.3	18.0	15.3	18.0	13.5	13.5	±3V	Kubota	D 1105	1123	3	55/65/69
Panda 24	20.4	24.0	20.4	24.0	18.0	18.0	±3V	Kubota	V 1505	1498	4	55/65/69
Panda 30	25.5	30.0	25.5	30.0	22.4	22.4	±3V	Kubota	V 1505T	1498	4	55/65/69
Panda 60	-	-	51.0	60.0	-	-	±3V	Merc.Benz	OM 602A	2874	5	58/68/72
Panda 75	-	-	63.7	75.0	-	-	±3V	Merc.Benz	OM603A 3.5	3500	6	58/68/72
Panda 100	-	-	85.0	100.0	-	-	±3V	Merc.Benz	OM603A 3.5	3500	6	58/68/72
Panda HD - 1500 rpm - 50 Hz Panda Vehicle Heavy Duty Generators with VCS Voltage Control System												
Panda 7,5-4	6.5	7.6	6.5	7.6	-	-	±3V	Kubota	D 1105	1123	3	52/62/66
Panda 9-4	8.0	9.4	8.0	9.4	-	-	±3V	Kubota	D 1105	1123	3	52/62/66
Panda 12-4	10.5	12.3	10.5	12.3	-	-	±3V	Kubota	D 1703	1647	3	52/62/66
Panda 17-4	14.7	17.5	14.7	17.5	-	-	±3V	Kubota	V 2203	2197	4	53/63/67
Panda 22-4	18.6	21.9	18.6	21.9	-	-	±3V	Kubota	V2403M	2434	4	53/63/67
Panda 30-4	25.0	29.4	25.0	29.4	-	-	±3V	Kubota	V3300	3318	4	request
Panda 40-4	-	-	35.0	41.1	-	-	±3V	Kubota	V3300T	3318	4	request
Panda 50-4	-	-	40.0	47.0	-	-	±3V	Kubota	V3800T	3769	4	request
Panda 60-4	-	-	50.4	59.3	-	-	±3V	Deutz	BF4M2012C	4040	4	request
Panda 70-4	-	-	61.6	72.5	-	-	±3V	Deutz	BF4M1013E	4764	4	request
Panda 85-4	-	-	73.6	86.6	-	-	±3V	Deutz	BF4M1013EC	4764	4	request
Panda 110-4	-	-	92.8	109.2	-	-	±3V	Deutz	BF6M1013E	7146	6	request
Panda 130-4	-	-	111.2	130.8	-	-	±3V	Deutz	BF6M1013EC	7146	6	request
Panda 200-4	-	-	170.0	200.0	-	-	±3V	Deutz	BF6M1015	11910	6	request
Panda AGT-DDC Battery Charging Generators with VCS Voltage Control System												
AGT Standard Generator with sound insulation capsule	Nominal Performance (kW)	Continuous Performance (kW)	Nominal voltage (DC)	Constant current rate (A)	Engine Revolutions	Voltage Tolerance	Engine Manufacturer	Engine Type	Displacement cm ³	NO. of Cylinders	Sound Level	
AGT-DC 4000-12V	4	3.2	12	220	2400-3000	±3V	Kubota	EA 300	309	1	55/65/69	
AGT-DC 4000-24V	4	3.2	24	110	2400-3000	±3V	Kubota	EA 300	309	1	52/62/67	
AGT-DC 5000-12V	4.5	3.6	12	250	1800-2200	±3V	Kubota	Z 482	479	2	52/62/67	
AGT-DC 6000-24V	5.5	4.8	24	170	2400-3200	±3V	Kubota	Z 482	479	2	52/62/67	
AGT-DC 8000-24V	8	6.4	24	220	2200-2600	±3V	Kubota	D 722	719	3	53/63/67	
AGT-DC 12000	12	request		request	±3V	Kubota	D 902	898	3	54/64/68		
AGT-DC 14000	14	request		request	±3V	Kubota	D 1105	1123	3	55/65/69		
AGT-DC 16000	16	request		request	±3V	Kubota	V1505	1498	4	55/65/69		
AGT-DC 25000	25	request		request	±3V	Kubota	V1505 T	1498	4	55/65/69		
AGT-DC 28000	28	request		request	±3V	Kubota	V2403	2434	4	55/65/69		



iSeries Vehicle Generators

with Variable Speed Technology

The new Panda iSeries-Generators are the first of the next generation of compact, super silent and powerful generators from Fischer Panda.

Using modern diesel engines which meet the latest emission standards and variable speed technology, the operating speed can be adjusted to match the load to ensure an efficiency while supplying extremely stable voltage and frequency.

The 4 kW 5000i generator can easily start an air conditioner with 24000 BTU. Fischer Panda iSeries-Generators are fitted with a highly regarded sound insulation and are water-cooled. The Panda iSeries-Generators have been especially designed to be light and compact.

- Variable speed - load-dependent
- Small size and low weight - compact installation
- Highly efficient - maximum energy

- 230V AC output - reliable power supply
- Pure sinus wave is ideal for computers and communications
- High starting capacity for air conditioners and pumps

- Easy to install
- Environmentally friendly - lower fuel consumption
- Also suited for installation with stationary applications - Energy for off-grid homes and remote locations



Panda 15000i (0-12kW)

Panda 8000i (0-6kW)*

Panda 5000i (0-4kW)*



Panda iControl Panel



Generator

Model	Panda 5000i PVMV-N* (previously 4000i)	Panda 8000i PVMV-N* (previously 6000i)	Panda 15000i PVMV-N
Dimensions (LxWxH)	[mm] 750 x 420 x 420	770 x 510 x 610	885 x 515 x 625
Weight	[kg] 133	173	220
Sound level (7m / 3m / 1m)	[dB] 54 / 64 / 68	52 / 62 / 67	54/64/68
Cooling System	Single circuit - freshwater cooling with external radiator	Single circuit - freshwater cooling with external radiator	Single circuit - freshwater cooling via external radiator

Performance

Nominal Output	[kW] 0-4.0 kW (5kVA)	0-6.0 kW (8kVA)	0-12.0 kW (15kVA)
Continuous Output	[kW] 0-3.5 kW	0-5.5 kW	0-10.8 kW
Voltage Stability	[%] 230 V \pm 3%	230 V \pm 3%	230 V \pm 3%
Frequency Stability	[%] 50 Hz \pm 2%	50 Hz \pm 2%	50 Hz \pm 2%
Voltage Regulation	electronic	electronic	electronic
Frequency Regulation	electronic	electronic	electronic

Control

Starter System	electric start	electric start	electric start
Autostart	integrated	integrated	integrated
Remote Control Panel	Panda iControl with digital display	Panda iControl with digital display	Panda iControl with digital display
Inverter	Panda PMGi Inverter, 10,1 kg	Panda PMGi Inverter, 12,3 kg	Panda PMGi Inverter, 17,4 kg
Inverter Dimensions	391 x 210 x 142	360 x 254 x 198	443 x 250 x 225

Engine

Engine Manufacturer	Kubota	Kubota	Kubota
Engine Type	EA 300	Z482	D902
Engine Displacement	[ccm] 309	479	898
Speed	[rpm] 2800 - (from 2200 optional)	2200 - 2800	2200 - 2800

Disclaimer: The information contained here is to the best of our knowledge accurate at the date of publication. All products are subject to continuous development and Fischer Panda GmbH reserves the right to alter technical specifications without prior notice.

*) With effect from 01.01.2011, the 4000i generator will be replaced by the 5000i and the 6000i replaced by the 8000i.



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Lister Petter Generating Sets

LLG Acoustic Gensets

Liquid cooled acoustic genset with electronic control module

Model	Prime (kW)	Stand-by (kW)	RPM
LLG 50A	36	40	1500
LLG 70A	50	55	1500
LLG 100A	72	80	1500
LLG 110A	80	88	1500
LLG 140A	100	110	1500



GAMMA ACOUSTIC GENSET

LLG Open Gensets

Liquid cooled open genset with electronic control module

Model	Prime (kW)	Stand-by (kW)	RPM
LLG 50	36	40	1500
LLG 70	50	55	
LLG 100	72	80	
LLG 110	80	88	
LLG 140	100	110	



GAMMA OPEN GENSET

LLO 200 Genset

Heavy duty radiator cooled base mounted open genset

Model	Prime (kW)	Stand-by (kW)	RPM
LLO 200/175	140	150	1500
LLO 200/200	160	176	1500
LLO 200/225	180	198	1500



OMEGA 200 GENSET



Lister Petter Generating Sets

HSL Air Cooled Genset

Air cooled genset with electronic control module

Acoustic Set for models HSL**A

Single Phase			
Model	Prime (kW)	Stand-by (kW)	RPM
HSL8	4.1	4.5	1500
HSL8A	4.1	4.5	1500
HSL15	8.6	9.4	1500
HSL15A	8.6	9.4	1500
HSL24	14	15.4	1500
HSL24A	14	15.4	1500

Three Phase			
Model	Prime (kW)	Stand-by (kW)	RPM
HSL8	4.3	4.7	1500
HSL8A	4.3	4.7	1500
HSL 15	9	9.3	1500
HSL15A	9	9.3	1500
HSL 24	14.5	15.9	1500
HSL 24A	14.5	15.9	1500



OPEN SET (HSL)



ACOUSTIC SET (HSLA)



Lister Petter Generating Sets

HSR Long Run Genset

Air cooled genset for up to 2000 hours unattended running
Acoustic Set for models HSR**A

Single Phase			
Model	Prime (kW)	Stand-by (kW)	RPM
HSR 15	8.6	9.4	1500
HSR15A	8.6	9.4	1500
HSR 24	14	15.4	1500
HSR 24A	14	15.4	1500
Three Phase			
Model	Prime (kW)	Stand-by (kW)	RPM
HSL 15	9	9.3	1500
HSL15A	9	9.3	1500
HSL 24	14.5	15.9	1500
HSL 24A	14.5	15.9	1500



OPEN SET (HSR)



ACOUSTIC SET (HSRA)

Village Genset

Hand start, easy maintenance air cooled gensets

Model	No. of Phases	Prime (kW)	Stand-by (kW)	RPM
LHV 6	1	4.4	4.8	1500
	3	4.7	5.2	1500
LHV 13	1	9.1	10	1500
	3	9.5	10.5	1500
LHV 20	1	13.9	15.3	1500
	3	14.7	16.2	1500



VILLAGE GENSET



Lister Petter Generating Sets

LLD Liquid Cooled Gensets

Liquid cooled generating sets with electronic control module

Acoustic Set for models LLD**A

Model	Rating	Single phase	Three Phase	RPM
LLD 95 (A)	Prime (kW)	5.6	5.6	1500
	Stand-by (kW)	6.1	6.1	1500
LLD 140 (A)	Prime (kW)	8.7	8.7	1500
	Stand-by (kW)	9.5	9.6	1500
LLD 190 (A)	Prime (kW)	12.2	12	1500
	Stand-by (kW)	13.5	13.2	1500
LLD 250 (A)	Prime (kW)	16.1	16	1500
	Stand-by (kW)	17.7	17.6	1500
LLD 135	Prime (kW)	10.2	11	3000
	Stand-by (kW)	11	12.1	3000
LLD 200	Prime (kW)	15.4	16.3	3000
	Stand-by (kW)	16.9	17.9	3000
LLD 275	Prime (kW)	20.9	22.5	3000
	Stand-by (kW)	23	24.8	3000
LLD 400	Prime (kW)	-	31.6	3000
	Stand-by (kW)	-	34.8	3000



OPEN SET (LLD)



ACOUSTIC SET (LLDA)



Lister Petter Generating Sets

LLD Long Running Gensets

Liquid cooled gensets for up to 2000 Hours unattended running
Acoustic Set for models LLD LR **A

Model	Rating	Single phase	Three Phase	RPM
LLD LR 95 (A)	Prime (kW)	5.6	5.6	1500
	Stand-by (kW)	6.1	6.1	1500
LLD LR 140 (A)	Prime (kW)	8.7	8.7	1500
	Stand-by (kW)	9.5	9.6	1500
LLD LR 190 (A)	Prime (kW)	12.2	12	1500
	Stand-by (kW)	13.5	13.2	1500
LLD LR 250 (A)	Prime (kW)	15.4	16	1500
	Stand-by (kW)	17	17.6	1500



DETAIL OF INTERIOR

LLD Water Cooled Genset

Water cooled mounted genset with electronic control module
Acoustic Set for models LLD**A

Model	Rating	Three Phase	RPM
LLD 410 (A)	Prime (kW)	24	1500
	Stand-by (kW)	26.4	1500



OPEN SET (LLD 410)



Lister Petter Generating Sets

LLDM Gensets

Heat exchanger cooled gensets with electronic control module

Model	Rating	Single phase	Three Phase	RPM
LLD 95	Prime (kW)	5.6	5.6	1500
	Stand-by (kW)	6.1	6.1	1500
LLD 140	Prime (kW)	8.7	8.7	1500
	Stand-by (kW)	9.5	9.6	1500
LLD 190	Prime (kW)	12.2	12	1500
	Stand-by (kW)	13.5	13.2	1500
LLD 250	Prime (kW)	16.1	16	1500
	Stand-by (kW)	17.7	17.6	1500

Model	Rating	Single phase	Three Phase	RPM
LLD 135	Prime (kW)	10.2	11	3000
	Stand-by (kW)	11.2	12.1	3000
LLD 200	Prime (kW)	15.4	16.3	3000
	Stand-by (kW)	16.9	17.9	3000
LLD 275	Prime (kW)	20.9	28.1	3000
	Stand-by (kW)	23	30.9	3000
LLD 400	Prime (kW)	-	31.6	3000
	Stand-by (kW)	-	34.8	3000



LLDM GENSET



Lister Petter Generating Sets

LLD Water Cooled Super Silent Gensets

Water cooled mounted genset with electronic control module

Model	Rating	Single phase	Three Phase	RPM
LLD 190 SS	Prime (kW)	12.2	12	1500
	Stand-by (kW)	13.5	13.2	1500



SUPER SILENT ACOUSTIC SET LLD (SS)
COMPLETE WITH 700 - LITRE FUEL TANK

LLP Air Cooled Gensets

Model	Rating	Single phase	RPM
LLD 4.5	Prime (kW)	4.5	3000
	Stand-by (kW)	5	3000
LLD 2.8	Prime (kW)	2.8	3000
	Stand-by (kW)	3.1	3000



LISTER PACK GENSET