

Diesel Gensets

10 ÷ 3500 kVA (60 Hz)

Our energy, your power.



AISONIA

ENG



Overview



Established in 1932, Ausonia represents the company with the longest experience and highest know-how in the gensets manufacturing business in Italy.

With a standard range of tried-and-tested gensets up to 3000 kVA, Ausonia designs and manufactures electric and thermal integrated energy generating systems for highly critical sectors such as Telecommunications, Utilities, Military & Defense, Transport, Healthcare and Infrastructures.

Covering an area of 32.000 sqm, Ausonia factory is equipped with the latest technology of automated machines for cutting, bending, welding, painting, assembling and storing manufactured goods, being capable of performing a 3-shifts production in order to meet Customers' specific requests for large volumes and fast delivery time.

Focusing on specific strategies for different industries, Ausonia is today recognized as the main Italian player in terms of customized products and services, offering excellent quality standards and operational performances.



Ausonia R&D department has always driven the market's reference standards and new technology development, being always leader in offering new solutions and products' configurations along its Customer-oriented approach. Within its offer portfolio, Ausonia can also provide CHP/CHHP power plants, LPG Gensets, Medium Voltage gensets, Diesel Rotary UPS and Mobile Generators on wheels.

In order to constantly improve company and product quality, to increase its Customers satisfaction, to improve the consistency of its operations and the efficiency of the company processes, Ausonia adopts a certified Quality and Environment Management System that complies with the following normative:

- UNI EN ISO 9001
- UNI EN ISO 14001

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- 1 Healthcare**
2x700 kW parallel configuration
- 2 Data Centers**
3,5 MW emergency power plant
- 3 Transports**
2 MW stand-by operation
- 4 Oil & Gas**
2 MW in IP55 container (+55°C)
- 5 Telecoms**
Hybrid solar 12 kW generator
- 6 Military**
2x220 kW mobile power station
- 7 Utilities**
440 kW stand-by operation

Special Projects





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- 1 **Medium Voltage**
Containerized DG for -25°C (Turkmenistan)
- 2 **Trailer**
Special canopied DG on site trailer (USA)
- 3 **Truck**
Switchable 50/60 Hz DG for Utility (KSA)
- 4 **No-break Power System**
Uninterruptible power for Data Center (Italy)
- 5 **CHP & CCHP**
Tri-Generation power system (Russia)
- 6 **Van**
Mobile unit for Broadcasting Co. (Tunisia)

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Introduction

Key for reading codes

MT	Engine brand			
0660	GS Prime Power (kVA) at 50 / 60 Hz			
S	Engine	S = 1500 rpm/50 Hz; 1800 rpm/60 Hz F = 3000 rpm/50 Hz; 3600 rpm/60 Hz		
W	Coolant	A = Air	O = Oil	W = Water
D	Fuel system	D = Diesel	G = Gas	

The codes indicate the basic technical features of the generating sets, allowing their immediate identification according to the diagram.

Power ratings (according to ISO 8528)

<p>PRP Prime Power</p>	<p>It is defined as being the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output over 24 h of operation shall not exceed 70% of the prime power. A 10% overload capacity is available for a period of 1 hour within a 12-hour period of operation.</p>	
<p>LTP Limited-Time Running Power</p>	<p>It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 h of operation per year (of which no more than 300 h for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.</p>	

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kVA	Serie	Page
0 - 2300	25 - 2300 kVA CUMMINS	10
0 - 540	14,5 - 540 kVA DEUTZ	12
0 - 820	180 - 820 kVA DOOSAN	14
860 - 2200	860 - 2200 kVA mitsubishi	16
500 - 3500	500 - 3500 kVA MTU	18
10 - 1720	10 - 1720 kVA PERKINS	20
85 - 725	85 - 725 kVA VOLVO PENTA	22



Powered by:



Healthcare

700 kW stand-by operation

Diesel Gensets with *Cummins* engine

25 - 2300 kVA



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Model	60 Hz - 1800 rpm - 380/220 V					Dimensions and weight				
	PRP		LTP		Fuel cons. PRP@75% l/h	Open on skidbase		Soundproofed Silent version		
	kVA	kW	kVA	kW		LxWxH mm	kg	Type	LxWxH mm	kg
CU0025SWD	25	20	27,5	22	5	2150x1270x1270	670	A	2150x1270x1400	970
CU0035SWD	35	28	38	30,4	8	2150x1270x1270	680	A	2150x1270x1400	980
CU0100SWD	125	100	137,5	110	22	2150x1270x1450	1060	B	2800x1270x1600	1805
CU0145SWD	160	128	176	140,8	31	2600x1620x1650	1620	C	3600x1620x1950	2220
CU0190SWD	220	176	240	192	40	2600x1620x1700	2000	C	3600x1620x1950	2600
CU0250SWD	290	232	320	256	58	2600x1620x1950	2950	C	3600x1620x1950	3550
CU0300SWD	340	272	375	300	55	2600x1620x1950	3110	C	3600x1620x1950	3710
CU0500SWD	560	448	615	492	90	3350x2020x2110	3910	D	4800x2020x2400	4810
CU0640SWD	675	540	740	592	118	3800x2020x2450	5250	E	5200x2020x2400	6250
CU0800SWD	930	744	1020	816	139	4000x1660x2150	5950	F	6000x2180x2400 (1)	7430
CU0930SWD	1000	800	1100	880	168	4300x1750x2420	8800	G	7000x2400x2700 (1)	11600
CU1000SWD	1150	920	1265	1012	190	4300x1750x2420	8800	G	7000x2400x2700 (1)	11600
CU1280SWD	1400	1120	1540	1232	222	5000x1760x2420	10500	35'	10500x2435x2990 (1)	18300
CU1400SWD	1600	1280	1760	1408	257	5630x2000x3050	11570		contact headquarter	
CU2020SWD	2300	1840	2530	2024	356	6000x2500x3200	16000		contact headquarter	

Model	Diesel engine							Alternator		
	Type	PRP kW	LTP kW	Asp.	Cyl.	Displ.	Gov.	Leroy Somer	Mecc Alte	Stamford
CU0025SWD	X2.5G4	24	27	NA	3L	2.500	M	TAL042A	ECP28-2L/4	PI144D
CU0035SWD	X3.3G2	33	39	NA	4L	3.300	M	TAL042D	ECP32-2S/4	PI144G
CU0100SWD	6BTA 5.9 G6	111	122	TCA	6L	5.900	E	TAL044H	ECP34-1L/4	UCI274D
CU0145SWD	6BTAA 5.9 G6	140	150	TCA	6L	5900	E	TAL044K	ECP34-3L/4	UCI274E
CU0190SWD	QSB7G5	194	225	TCA	6L	6690	E	TAL046C	ECO38-3S/4	UCI274H
CU0250SWD	QSL9G3	248	280	TCA	6L	8800	E	TAL046F	ECO38-2L/4	UCDI274J
CU0300SWD	QSL9G5	297	345	TCA	6L	8800	E	TAL046H	ECO38-3L/4	S4L1S-D
CU0500SWD	QSX 15 G9	476	526	TCA	6L	15.000	E	TAL047D	ECO40-1L/4	HCI544D
CU0640SWD	VTA 28 G5	574	630	TCA	12V	28000	E	TAL049B	ECO40-2L/4	HCI544E
CU0800SWD	QSK 23 G3	790	876	TCA	6L	23100	E	TAL049E	ECO43-2S/4	HCI634H
CU0930SWD	KTA 38 G3	872	952	TCA	12V	38000	E	LSA 50.2 M6	ECO43-1M/4	HCI634H
CU1000SWD	KTA 38 G4	969	1063	TCA	12V	38000	E	LSA 50.2 M6	ECO43-2M/4	HCI634J
CU1280SWD	KTA 50 G3	1182	1328	TCA	16V	50000	E	LSA 50.2 L8	ECO 43-VL/4	PI734A
CU1400SWD	KTA 50 G9	1349	1605	TCA	16V	50000	E	LSA 50.2 VL10	ECO 46-1.5S/4	PI734C
CU2020SWD	QSK 60 G6	1937	2120	TCA	16V	60200	E	LSA 52.3 L9	ECO 46-1.5L/4	PI734F

(1) Dimensions refer to the genset only, excluding exhaust muffler



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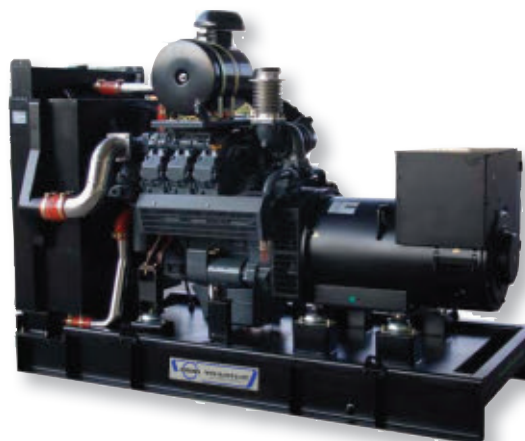


Telecom

2x12,5 kVA in dual setup (1+1) for off-grid BTS

Diesel Gensets with *Deutz* engine

14,5 - 540 kVA



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Model	60 Hz - 1800 rpm - 380/220 V					Dimensions and weight				
	PRP		LTP		Fuel cons. PRP@75% l/h	Open on skidbase		Soundproofed Silent version		
	kVA	kW	kVA	kW		LxWxH mm	kg	Type	LxWxH mm	kg
DE12.5SOD	14,5	11,6	16	12,8	3	2150x1270x1270	650	A	2150x1270x1400	950
DE0020SOD	24	19,2	26	20,8	4,5	2150x1270x1270	700	A	2150x1270x1400	1000
DE0030SOD	35	28	38	30,4	6	2150x1270x1350	710	A	2150x1270x1400	1010
DE0030SAD	35	28	38	30,4	6	2150x1270x1350	710	A	2150x1270x1400	1010
DE0035SAD	40	32	44	35,2	7	2150x1270x1350	750	A	2150x1270x1400	1050
DE0040SOD	45	36	50	40	8	2150x1270x1350	790	A	2150x1270x1400	1090
DE0060SWD	60	48	66	52,8	10	2150x1270x1350	920	B	2800x1270x1600	1320
DE0100SWD	110	88	120	96	18	2150x1270x1650	1230	B	2800x1270x1600	1820
DE0130SWD	130	104	143	114,4	21	2600x1620x1650	1610	C	3600x1620x1950	2210
DE0160SWD	170	136	187	149,6	27	2600x1620x1680	1780	C	3600x1620x1950	2380
DE0180SWD	200	160	220	176	33	2600x1620x1690	1990	C	3600x1620x1950	2590
DE0200SWD	220	176	240	192	35	2600x1620x1690	1990	C	3600x1620x1950	2590
DE0250SWD	250	200	275	220	44	2600x1620x1690	2200	C	3600x1620x1950	2800
DE0300SWD	340	272	375	300	54	3200x2020x1860	3170	D	4800x2020x2400	4070
DE0450SWD	460	368	500	400	72	3200x2020x2070	3710	D	4800x2020x2400	4610
DE0500SWD	540	432	590	472	90	3200x2020x2070	4260	D	4800x2020x2400	5160

Model	Diesel engine							Alternator		
	Type	PRP kW	LTP kW	Asp.	Cyl.	Displ.	Gov.	Leroy Somer	Mecc Alte	Stamford
DE12.5SOD	F2M 2011	14,3	15,1	NA	2L	1600	M	TAL040D	ECP3-3L/4	PI044F
DE0020SOD	F3M 2011	22,6	23,8	NA	3L	2300	M	TAL042A	ECP28-2L/4	PI144D
DE0030SOD	F4M 2011	32,8	34,5	NA	4L	3100	M	TAL042D	ECP32-2S/4	PI144G
DE0030SAD	F4L 2011	32,8	34,5	NA	4L	3110	M	TAL042D	ECP32-2S/4	PI144G
DE0035SAD	F3L 914	38	40	NA	3L	3236	M	TAL042E	ECP32-3S/4	PI144H
DE0040SOD	BF4M 2011	43,2	45,5	TC	4L	3100	M	TAL042G	ECP32-1M/4	PI144J
DE0060SWD	BF4M 2011C	56,9	60,1	TC	4L	3100	M	TAL044A	ECP32-2M/4	UCI224D
DE0100SWD	BF4M 1013EC	97,7	102,7	TCA	4L	4764	M	TAL044E	ECP34-1L/4	UCI274C
DE0130SWD	BF4M 1013FC	118,1	124,8	TCA	4L	4764	E	TAL044H	ECP34-1L/4	UCI274D
DE0160SWD	BF6M 1013EC	148,4	156,4	TCA	6L	7146	M	TAL044L	ECO38-1S/4	UCI274F
DE0180SWD	BF6M 1013 FCG2	179,6	202,1	TCA	6L	7150	E	TAL044M	ECO38-2S/4	UCI274G
DE0200SWD	BF6M 1013 FCG3	196,6	217,5	TCA	6L	7150	E	TAL046C	ECO38-3S/4	UCI274H
DE0250SWD	TCD 2013 L06 4V	220	247	TCA	6L	7146	E	TAL046E	ECO38-1L/4	UCDI274K
DE0300SWD	BF6M 1015 CG2	291	322	TCA	6V	11906	E	TAL046H	ECO38-3L/4	S4L1S-D
DE0450SWD	BF8M 1015 CG2	395,1	436,1	TCA	8V	15874	E	TAL047B	ECO40-2S/4	HCI544C
DE0500SWD	BF8M 1015 CP	456,2	500,2	TCA	8V	15874	E	TAL047D	ECO40-1L/4	HCI544D



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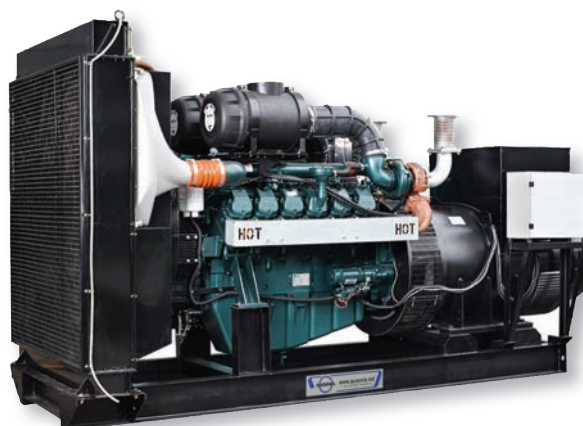


Telecom

550 kW emergency operation for MSC

Diesel Gensets with *Doosan* engine

180 - 820 kVA



Model	60 Hz - 1800 rpm - 380/220 V					Dimensions and weight				
	PRP		LTP		Fuel cons. PRP@75% l/h	Open on skidbase		Soundproofed Silent version		
	kVA	kW	kVA	kW		LxWxH mm	kg	Type	LxWxH mm	kg
DO0150SWD	180	144	200	160	30	2600x1620x1700	2000	C	3600x1620x1950	2600
DO0200SWD	220	176	240	192	38	2600x1620x1700	2100	C	3600x1620x1950	2700
DO0230SWD	250	200	275	220	42	2800x1620x1700	2130	C	3600x1620x1950	2730
DO0270SWD	300	240	330	264	52	2800x1620x1700	2480	C	3600x1620x1950	3080
DO0300SWD	340	272	375	300	56	2800x1620x1700	2480	C	3600x1620x1950	3080
DO0400SWD	440	352	480	384	75	3200x2020x2030	3550	D	4800x2020x2400	4450
DO0450SWD	500	400	550	440	83	3200x2020x2030	3200	D	4800x2020x2400	4100
DO0500SWD	560	448	615	492	93	3200x2020x2030	3250	D	4800x2020x2400	4150
DO0570SWD	630	504	690	552	107	3200x2020x2070	4500	E	5200x2020x2400	5500
DO0630SWD	675	540	740	592	114	3200x2020x2070	4750	E	5200x2020x2400	5750
DO0680SWD	790	632	870	696	128	3600x2020x2160	5070	F	6000x2180x2400 (1)	6550
DO0750SWD	820	656	900	720	134	3600x2020x2160	5320	F	6000x2180x2400 (1)	6800

Model	Diesel engine							Alternator		
	Type	PRP kW	LTP kW	Asp.	Cyl.	Displ.	Gov.	Leroy Somer	Mecc Alte	Stamford
DO0150SWD	DP086TA	160	179	TC	6L	8071	E	TAL044L	ECO38-1S/4	UCI274F
DO0200SWD	P086TI	197	215	TCA	6L	8071	E	TAL046C	ECO38-3S/4	UCI274H
DO0230SWD	DP086LA	220	245	TCA	6L	8071	E	TAL046E	ECO38-1L/4	UCDI274K
DO0270SWD	P126TI	267	287	TCA	6L	11051	E	TAL046G	ECO38-2L/4	UCDI274J
DO0300SWD	P126TI-II	296	331	TCA	6L	11051	E	TAL046H	ECO38-3L/4	S4L1S-D
DO0400SWD	P158LE	379	435	TCA	8V	14618	E	TAL047A	ECO40-2S/4	HCI544C
DO0450SWD	DP158 LC	442	489	TCA	8V	14618	E	TAL047C	ECO40-3S/4	HCI544C
DO0500SWD	DP158 LD	481	552	TCA	8V	14618	E	TAL047D	ECO40-1L/4	HCI544D
DO0570SWD	DP 180 LA	535	591	TCA	10V	18273	E	TAL047F	ECO40-1.5L/4	HCI544E
DO0630SWD	DP180 LB	577	637	TCA	10V	18273	E	TAL049B	ECO40-2L/4	HCI544E
DO0680SWD	DP222 LB	673	744	TCA	12V	21927	E	TAL049C	ECO43-1S/4	HCI544F
DO0750SWD	DP222 LC	715	790	TCA	12V	21927	E	TAL049D	ECO43-1S/4	HCI544F

(1) Dimensions refer to the genset only, excluding exhaust muffler

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Utilities

1,2 MW emergency operation

Diesel Gensets with *Mitsubishi* engine

860 - 2200 kVA



Model	60 Hz - 1800 rpm - 380/220 V					Dimensions and weight				
	PRP		LTP		Fuel cons. PRP@75% l/h	Open on skidbase		Soundproofed Silent version		
	kVA	kW	kVA	kW		LxWxH mm	kg	Type	LxWxH mm	kg
MI0770SWD	860	688	950	760	144	4000x1650x2200	6500	F	6000x2180x2400 (1)	7980
MI1000SWD	1150	920	1265	1012	185	4300x2000x2400	9000	G	7000x2400x2700 (1)	11800
MI1280SWD	1360	1088	1500	1200	219	4320x2000x2250	9500	35'	10500x2435x2990 (1)	17300
MI1400SWD	1500	1200	1650	1320	252	4400x2000x2250	9650	35'	10500x2435x2990 (1)	17450
MI1750SWD	1800	1440	1980	1584	283	5100x2000x2250 (1)	12000	35'	10500x2435x2990 (1)	19000
MI1900SWD	2000	1600	2200	1760	333	5100x2000x2550 (1)	12530	35'	10500x2435x2990 (1)	19530
MI2280SWD	2200	1760	2420	1936	357					contact headquarter

Model	Diesel engine							Alternator		
	Type	PRP kW	LTP kW	Asp.	Cyl.	Displ.	Gov.	Leroy Somer	Mecc Alte	Stamford
MI0770SWD	S12A2-PTA	731	820	TCA	12V	33930	E	TAL049D	ECO43-2S/4	HCI634H
MI1000SWD	S12H-PTA	980	1080	TCA	12V	37110	E	LSA 50.2 M6	ECO43-2M/4	HCI634J
MI1280SWD	S12R-PTA	1140	1270	TCA	12V	49030	E	LSA 50.2 L8	ECO 43-VL/4	HCI634K
MI1400SWD	S12R-PTA2	1290	1420	TCA	12V	49030	E	LSA 50.2 VL10	ECO 46-1.5S/4	PI734B
MI1750SWD	S16R-PTA	1540	1700	TCA	16V	65370	E	LSA 52.3 S5	ECO 46-2S/4	PI734D
MI1900SWD	S16R-PTA2	1725	1900	TCA	16V	65370	E	LSA 52.3 S7	ECO 46-1L/4	PI734G
MI2280SWD	S16R-PTAA2	1895	2105	TCA	16V	65370	E	LSA 52.3 L9	ECO 46-1.5L/4	PI734F

(1) Dimensions refer to the genset only, excluding exhaust muffler and/or remote radiator, whichever is applicable

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Oil & Gas Plant

5 MW continuous operation (desert environment)

Diesel Gensets with **MTU** engine

500 - 3500 kVA



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Model	60 Hz - 1800 rpm - 380/220 V					Dimensions and weight				
	PRP		LTP		Fuel cons. PRP@75% l/h	Open on skidbase		Soundproofed Silent version		
	kVA	kW	kVA	kW		LxWxH mm	kg	Type	LxWxH mm	kg
MT0450SWD	500	400	550	440	75	3200x2020x2070	4400	D	4800x2020x2400	5300
MT0500SWD	560	448	615	492	84	3200x2020x2070	4460	D	4800x2020x2400	5340
MT0600SWD	630	504	690	552	94	3600x2020x2160	5600	E	5200x2020x2400	6600
MT0660SWD	675	540	740	592	103	3600x2020x2160	5800	E	5200x2020x2400	6800
MT0750SWD	780	624	860	688	127	3900x1450x2280	5700	F	6000x2180x2400 (1)	7200
MT0800SWD	900	720	990	792	145	3900x1450x2280	5700	F	6000x2180x2400 (1)	7200
MT1000SWD	1000	800	1100	880	160	4500x1580x2320	9170	G	7000x2400x2700 (1)	11950
MT1140SWD	1140	912	1250	1000	181	4500x1580x2350	7700	30'	9125x2435x2990 (1)	13900
MT1250SWD	1360	1088	1500	1200	216	4600x1900x2530	8000	30'	9125x2435x2990 (1)	14000
MT1650SWD	1750	1400	1925	1540	261	4150x1680x2425 (1)	12000	35'	10500x2435x2990 (1)	19000
MT1850SWD	2000	1600	2200	1760	298	4150x1680x2480 (1)	13200	35'	10500x2435x2990 (1)	20200
MT2100SWD	2400	1920	2640	2112	365	4800x1680x2570 (1)	13600	40'	12190x2435x2990 (1)	22400
MT2300SWD	2700	2160	2970	2376	401	4900x1680x2570 (1)	14300	40'	12190x2435x2990 (1)	23100
MT2550SWD	2950	2360	3245	2596	440	5380x1680x2860 (1)	16500	40'	12190x2435x2990 (1)	26000
MT2850SWD	3200	2560	3520	2816	473	5480x1680x2860 (1)	17000	40'	12190x2435x2990 (1)	25800
MT3000SWD	3500	2800	3850	3080	512	5480x1680x2860 (1)	17000	40'	12190x2435x2990 (1)	25800

Model	Diesel engine							Alternator		
	Type	PRP kW	LTP kW	Asp.	Cyl.	Displ.	Gov.	Leroy Somer	Mecc Alte	Stamford
MT0450SWD	10V 1600 G10S	445	491	TCA	10V	17500	E	TAL047C	ECO40-3S/4	HCI544C
MT0500SWD	10V 1600 G20S	491	541	TCA	10V	17500	E	TAL047D	ECO40-1L/4	HCI544D
MT0600SWD	12V 1600 G10S	535	587	TCA	12V	21000	E	TAL047F	ECO40-1.5L/4	HCI544E
MT0660SWD	12V 1600 G20S	582	642	TCA	12V	21000	E	TAL049B	ECO40-2L/4	HCI544E
MT0750SWD	12V 2000 G45TD	667	738	TCA	12V	23880	E	TAL049C	ECO43-1S/4	HCI544F
MT0800SWD	12V 2000 G85TD	767	848	TCA	12V	23880	E	TAL049D	ECO43-2S/4	HCI634H
MT1000SWD	16V 2000 G45TD	866	958	TCA	16V	31840	E	LSA 50.2 M6	ECO43-1M/4	HCI634H
MT1140SWD	16V 2000 G85TD	961	1065	TCA	16V	31840	E	LSA 50.2 M6	ECO43-2M/4	HCI634J
MT1250SWD	18V 2000 G85TD	1143	1262	TCA	18V	35820	E	LSA 50.2 L7	ECO 43-VL/4	HCI634K
MT1650SWD	12V 4000 G14S	1520	1672	TCA	12V	57200	E	LSA 52.3 S5	ECO46-2S/4	PI734E
MT1850SWD	12V 4000 G24S	1736	1910	TCA	12V	57200	E	LSA 52.3 S7	ECO 46-1L/4	PI734G
MT2100SWD	16V 4000 G14S	2020	2222	TCA	16V	76300	E	LSA 52.3 L12	ECO 46-2L/4	PI734F
MT2300SWD	16V 4000 G24S	2280	2508	TCA	16V	76300	E	LSA 53.2 M9	ECO46-VL/4	P80 LVSI804R
MT2550SWD	20V 4000 G14S	2490	2739	TCA	20V	95400	E	LSA 53.2 M12	not available	P80LVSI804S
MT2850SWD	20V 4000 G24S	2740	3014	TCA	20V	95400	E	not available	not available	P80LVSI804T
MT3000SWD	20V 4000 G44S	3010	3311	TCA	20V	95400	E	not available	not available	P80LVSI804W

(1) Dimensions refer to the genset only, excluding exhaust muffler and/or remote radiator, whichever is applicable



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Data Center

5,8 MW stand-by operation (mission critical)

Diesel Gensets with *Perkins* engine

10 - 1720 kVA



Model	60 Hz - 1800 rpm - 380/220 V					Dimensions and weight				
	PRP		LTP		Fuel cons. PRP@75% l/h	Open on skidbase		Soundproofed Silent version		
	kVA	kW	kVA	kW		LxWxH mm	kg	Type	LxWxH mm	kg
PE0009SWD	10	8	11	8,8	2	2150x1270x1270	635	A	2150x1270x1400	935
PE0013SWD	14,5	11,6	16	12,8	3	2150x1270x1270	635	A	2150x1270x1400	935
PE0015SWD	17	13,6	18,5	14,8	3,5	2150x1270x1270	645	A	2150x1270x1400	945
PE0020SWD	23	18,4	25	20	4,5	2150x1270x1270	700	A	2150x1270x1400	1000
PE0030SWD	35	28	38	30,4	7	2150x1270x1350	710	A	2150x1270x1400	1010
PE0045SWD	55	44	60	48	10	2150x1270x1350	790	B	2800x1270x1600	1190
PE0060SWD	70	56	77	61,6	12	2150x1270x1350	920	B	2800x1270x1600	1320
PE0080SWD	90	72	100	80	17	2150x1270x1350	1050	B	2800x1270x1600	1450
PE0100SWD	110	88	120	96	19	2150x1270x1350	1210	B	2800x1270x1600	1730
PE0130SWD	150	120	165	132	25	2600x1620x1650	2085	C	3600x1620x1950	2685
PE0180SWD	200	160	220	176	34	2600x1620x1700	2040	C	3600x1620x1950	2640
PE0250SWD	290	232	320	256	45	2600x1620x1820	2440	C	3600x1620x1950	3040
PE0300SWD	340	272	375	300	53	2600x1620x1750	2560	C	3600x1620x1950	3160
PE0350SWD	400	320	440	352	61	3200x2020x1908	3600	D	4800x2020x2400	4500
PE0450SWD	500	400	550	440	78	3200x2020x2200	3680	D	4800x2020x2400	4580
PE0620SWD	630	504	690	552	96	3500x2020x2250	5000	E	5200x2020x2400	6000
PE0750SWD	750	600	825	660	123	3920x1980x2250	5300	F	6000x2180x2400 (1)	6780
PE0800SWD	840	672	920	736	138	3920x1980x2250	5700	F	6000x2180x2400 (1)	7180
PE1000SWD	1000	800	1100	880	160	4500x2045x2510	7500	30'	9125x2435x2990 (1)	14100
PE1250SWD	1250	1000	1375	1100	206	4680x1800x2300	11000	30'	9125x2435x2990 (1)	17600
PE1380SWD	1360	1088	1500	1200	224	4680x1800x2300	11000	30'	9125x2435x2990 (1)	17600
PE1500SWD	1500	1200	1650	1320	252	4870x1800x2300	11000	35'	10500x2435x2990 (1)	17600
PE1720SWD	1720	1376	1890	1512	285	5200x2200x2425	11000		contact headquarter	

Model	Diesel engine							Alternator		
	Type	PRP kW	LTP kW	Asp.	Cyl.	Displ.	Gov.	Leroy Somer	Mecc Alte	Stamford
PE0009SWD	403D-11G	10,3	11,4	NA	3L	1121	M	TAL040B	ECP3-1L/4	PI044E
PE0013SWD	403D-15G	14,4	15,9	NA	3L	1496	M	TAL040D	ECP3-3L/4	PI044F
PE0015SWD	403A-15G2	16,1	17,77	NA	3L	1496	M	TAL040E	ECP28 S4/A	PI044G
PE0020SWD	404D-22G	21,6	23,9	NA	4L	2216	M	TAL042A	ECP28-2L/4	PI144D
PE0030SWD	1103A-33G	32,2	35,4	NA	3L	3300	M	TAL042D	ECP32-2S/4	PI144G
PE0045SWD	1103A-33TG1	48,8	53,9	TC	3L	3300	M	TAL042H	ECP32-2M/4	PI144K
PE0060SWD	1103A-33TG2	61,2	67,5	TC	3L	3300	M	TAL044B	ECP32-3L/4	UCI224E
PE0080SWD	1104A-44 TG2	82	90,2	TC	4L	4400	M	TAL044D	ECP34-2S/4	UCI224G
PE0100SWD	1104C-44TAG2	100	112	TCA	4L	4400	E	TAL044E	ECP34-1L/4	UCI274C
PE0130SWD	1106A-70 TG1	133,5	148,4	TC	6L	7000	E	TAL044K	ECP34-2L/4	UCI274E
PE0180SWD	1106A-70TAG3	172,5	191,7	TCA	6L	7000	E	TAL044M	ECO38-2S/4	UCI274G
PE0250SWD	1506A-E88TAG3	252	279	TCA	6L	8800	E	TAL046F	ECO38-2L/4	UCDI274J
PE0300SWD	1506A-E88TAG5	300	333	TCA	6L	8800	E	TAL046H	ECO38-3L/4	S4L1S-D
PE0350SWD	2206A-E13TAG2	349	381	TCA	6L	12500	E	TAL047A	ECO40-1S/4	HCI544C
PE0450SWD	2506C-E15TAG1	435	490	TCA	6L	15200	E	TAL047C	ECO40-3S/4	HCI544C
PE0620SWD	2806A-E18TAG1A	543	598	TCA	6L	18100	E	TAL047F	ECO40-1.5L/4	HCI544E
PE0750SWD	4006-23TAG2A	638	702	TCA	6L	22921	E	TAL049C	ECO40-VL/4	HCI544F
PE0800SWD	4006-23TAG3A	715	795	TCA	6L	22921	E	TAL049D	ECO43-2S/4	HCI634H
PE1000SWD	4008 TAG2	838	924	TCA	8L	30561	E	LSA 50.2 M6	ECO43-1M/4	HCI634H
PE1250SWD	4012-46 TWG2A	1055	1166	TCA	12V	45842	E	LSA 50.2 M6	ECO 43-2L/4	HCI634J
PE1380SWD	4012-46 TWG3A	1149	1263	TCA	12V	45842	E	LSA 50.2 L8	ECO 43-VL/4	PI734A
PE1500SWD	4012-46 TAG2A	1267	1395	TCA	12V	45842	E	LSA 50.2 VL10	ECO 46-1.5S/4	PI734B
PE1720SWD	4012-46 TAG3A	1436	1579	TCA	12V	45842	E	LSA 52.3 S5	ECO 46-2S/4	PI734C

(1) Dimensions refer to the genset only, excluding exhaust muffler and/or remote radiator, whichever is applicable

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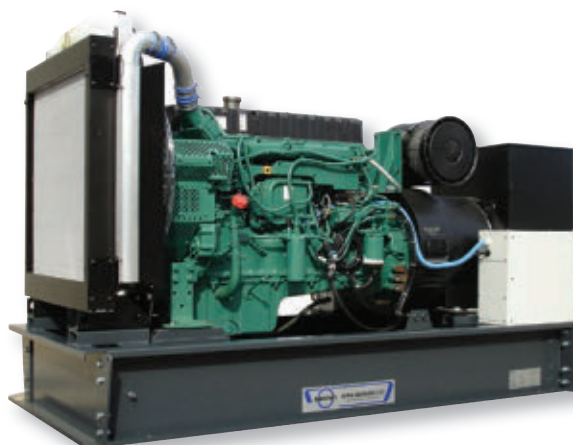
**VOLVO
PENTA**

Utilities

500 kW stand-by operation (stainless steel container)

Diesel Gensets with *Volvo Penta* engine

85 - 725 kVA



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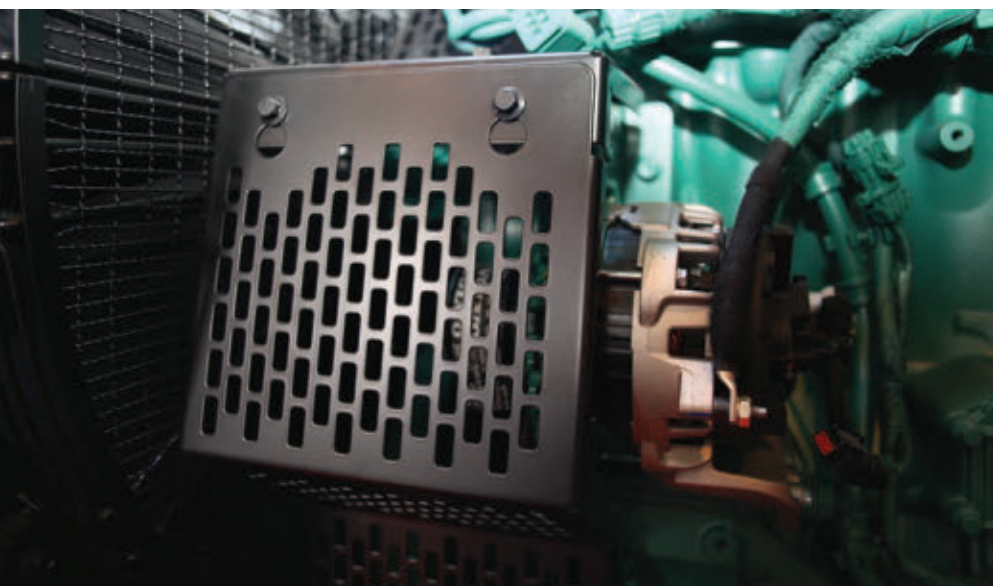
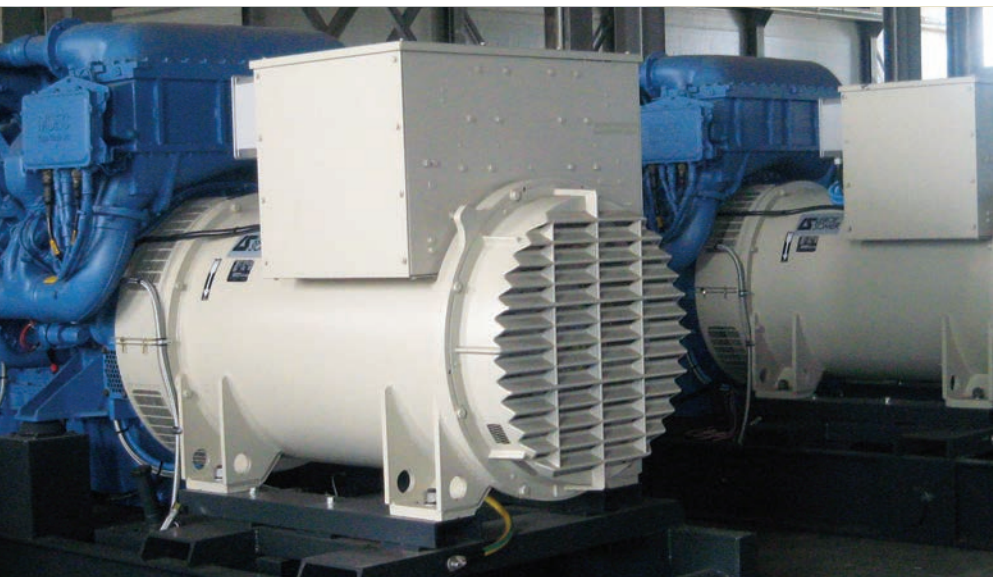
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Model	60 Hz - 1800 rpm - 380/220 V					Dimensions and weight				
	PRP		LTP		Fuel cons. PRP@75% l/h	Open on skidbase		Soundproofed Silent version		
	kVA	kW	kVA	kW		LxWxH mm	kg	Type	LxWxH mm	kg
VO0085SWD	85	68	93,5	74,8	15	2150x1270x1650	1150	B	2800x1270x1600	1550
VO0100SWD	105	84	115,5	92,4	18	2150x1270x1650	1230	B	2800x1270x1600	1820
VO0130SWD	130	104	143	114,4	22	2600x1620x1650	1610	C	3600x1620x1950	2210
VO0150SWD	160	128	176	140,8	27	2600x1620x1680	1680	C	3600x1620x1950	2280
VO0180SWD	200	160	220	176	34	2600x1620x1690	1990	C	3600x1620x1950	2590
VO0200SWD	220	176	240	192	38	2600x1620x1690	1990	C	3600x1620x1950	2590
VO0250SWD	250	200	275	220	43	2600x1620x1690	2200	C	3600x1620x1950	2800
VO0300SWD	330	264	360	288	51	3200x2020x1860	3170	D	4800x2020x2400	4070
VO0350SWD	400	320	440	352	62	3200x2020x1860	3260	D	4800x2020x2400	4160
VO0380SWD	410	328	450	360	63	3200x2020x1860	3400	D	4800x2020x2400	4300
VO0400SWD	460	368	500	400	70	3200x2020x1955	3500	D	4800x2020x2400	4400
VO0450SWD	460	368	500	400	70	3200x2020x2070	3710	D	4800x2020x2400	4610
VO0500SWD	560	448	615	492	86	3200x2020x2070	4260	D	4800x2020x2400	5160
VO0570SWD	630	504	690	552	97	3200x2020x2070	4560	D	4800x2020x2400	5460
VO0630SWD	675	540	740	592	103	3600x2020x2160	5300	E	5200x2020x2400	6300
VO0650SWD	675	540	740	592	100	3600x2020x2160	5550	E	5200x2020x2400	6550
VO0700SWD	725	580	800	640	125	3600x2020x2160	5650	E	5200x2020x2400	6650

Model	Diesel engine							Alternator		
	Type	PRP kW	LTP kW	Asp.	Cyl.	Displ.	Gov.	Leroy Somer	Mecc Alte	Stamford
VO0085SWD	TAD 530 GE	75	85	TCA	4L	4760	M	TAL044C	ECP34-1S/4	UCI224G
VO0100SWD	TAD 531 GE	93	104	TCA	4L	4760	M	TAL044E	ECP34-1L/4	UCI274C
VO0130SWD	TAD 532 GE	115	129	TCA	4L	4760	E	TAL044H	ECP34-1L/4	UCI274D
VO0150SWD	TAD 731 GE	138	154	TCA	6L	7150	M	TAL044K	ECP34-3L/4	UCI274E
VO0180SWD	TAD 732 GE	171	192	TCA	6L	7150	E	TAL044M	ECO38-2S/4	UCI274G
VO0200SWD	TAD 733 GE	190	213	TCA	6L	7150	E	TAL046C	ECO38-3S/4	UCI274H
VO0250SWD	TAD 734 GE	216	243	TCA	6L	7150	E	TAL046E	ECO38-1L/4	UCDI274K
VO0300SWD	TAD 1341 GE	287	317	TCA	6L	12780	E	TAL046H	ECO38-3L/4	S4L1S-D
VO0350SWD	TAD 1342 GE	345	377	TCA	6L	12780	E	TAL047A	ECO40-1S/4	HCI544C
VO0380SWD	TAD 1343 GE	353	388	TCA	6L	12780	E	TAL047A	ECO40-1S/4	HCI544C
VO0400SWD	TAD 1344 GE	392	431	TCA	6L	12780	E	TAL047B	ECO40-2S/4	HCI544C
VO0450SWD	TAD 1345 GE	392	431	TCA	6L	12780	E	TAL047B	ECO40-2S/4	HCI544C
VO0500SWD	TAD 1641 GE	485	546	TCA	6L	16120	E	TAL047D	ECO40-1L/4	HCI544D
VO0570SWD	TAD 1642 GE	532	585	TCA	6L	16120	E	TAL047F	ECO40-1.5L/4	HCI544E
VO0630SWD	TWD 1643 GE	585	644	TCA	6L	16120	E	TAL049B	ECO40-2L/4	HCI544E
VO0650SWD	TWD 1644 GE	582	640	TCA	6L	16120	E	TAL049B	ECO40-2L/4	HCI544E
VO0700SWD	TWD 1645 GE	619	681	TCA	6L	16120	E	TAL049B	ECO40-VL/4	HCI544F



Equipment



Equipment for generating set on skidbase	Standard & Optional
Engine	
Diesel engine, 4 strokes, water-cooled (oil cooled for Deutz from 20 to 40 kVA)	•
Electric starting system	•
Alternator battery charger	•
Dry air filter with removable element	•
Protection against hot and moving parts	•
Cooling system	
Temperate radiator mounted on skidbase	•
Tropicalized radiator mounted on skidbase	□
Remote radiator	□
Coolant preheating system (standard only for automatic genset)	•
First fill coolant	□
Exhaust	
Industrial muffler (noise reduction 15 dB), supplied loose	•
Residential muffler (noise reduction 35/40 dB), supplied loose (for open set only)	□
Blunt terminal for residential muffler	□
Bend pipe with antirain cap for residential muffler	□
Gas exhaust expansion joint in stainless steel	•
Protection for hot parts	□
Lubrication system	
Oil sump drainage system	□
Oil level control with top-up system	□
First fill oil	•
Standard oil filter	•
Oil preheating system	□
Alternator	
Self-excited and self-regulated, class H/H, single bearing, IP 23	•
Self excited and self regulated, class H/H, double bearing, IP 23	□
Automatic voltage regulator with exciter	•
Anti-condensation heater	□
Air inlet filter	□
CT and VT	□
Treatment against moist and corrosive environment	□
Fuel system	
Built-in fuel tank 120 l capacity	•
Extended built-in fuel tank capacity	□
Leak proof tray with sensor	□
Storage fuel tank	□
Automatic refuelling kit	□
Standard fuel filter	•
Water/fuel filter separator	□
Generating set	
Skidbase with antivibrating shock-absorbers	•
Lead type batteries with cables and tray	•
Sealed lead type batteries with cable and tray	□
Removable lifting devices	•
Tools kit	□
Special tools	□
Electrical diagrams	•
Operation & maintenance manual (electronic format)	•

• = Standard □ = Optional

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Control Panels

With over 85 years of experience in designing and manufacturing advanced control systems for generator sets, Ausonia offers a complete range of panels and controllers for its portfolio of diesel and gas generators.

Equipped with logic controllers manufactured by well-known brands worldwide, the Ausonia control panels can be delivered for Manual, Automatic and Parallel operation, depending on the kind of application they will be used for.

Power and control protections are always available, to preserve the generating sets from electric damages which might occur downstream the power line.

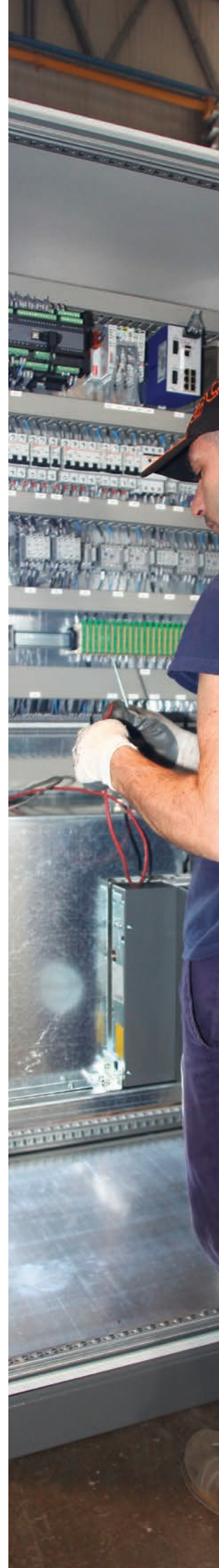
Additionally, the control panels can be also equipped with Automatic Transfer Switches, offered both as built-in or separated configuration, depending on gensets capacity and type.

Different degrees of IP protection are available, in order to satisfy the needs of every Customer.

Special customizations with specific gauges, indicators, meters and switches can be provided on demand.

Technical features	Manual	Automatic	Parallel
Gauges on display			
Mains voltmeter (R S T line voltages and phase voltage)	x	•	□
Mains frequency meter	x	•	•
GS voltmeter (U V W line voltage and phase voltage)	•	•	•
Ammeter on three phases (U V W)	•	•	•
GS frequency meter	•	•	•
Tachometer	□	□	•
Hours counter	•	•	•
Start counter	x	•	•
Power factor meter	•	•	•
Wattmeter	•	•	•
GS kVAr	•	•	•
GS apparent power	•	•	•
GS kWh	•	•	•
Battery voltmeter	•	•	•
Led / display indication			
Changeover state indication	x	•	•
Active alarm/s	•	•	•
Engine running	•	•	•
Voltage/frequency GS within nominal value	•	•	•
Voltage/frequency Mains within nominal value	x	•	□
Electric feeding ON and electronic card OK	•	•	•
Operation modes	x	•	•
Protections			
GS low/high voltage (27/59)	•	•	•
GS low/high frequency (81<>)	•	•	•
Battery voltage out of limits (80/45)	•	•	•
High engine temperature	•	•	•
Low oil pressure	•	•	•
Overspeed	•	•	•
Engine low speed (81<f)	x	x	•
GS overload (kW)	x	•	•
Alternator overcurrent (51)	•	•	•
Short-circuit current (50)	x	•	•
Starting failure	•	•	•
Stop failure	•	•	•

• = Standard □ = Optional x = Not available





Technical features	Manual	Automatic	Parallel
Protections			
Emergency stop	●	●	●
Phase sequence error (47)	●	●	●
Genset contactors opening/closing failure	x	□	●
Mains contactors opening/closing failure	x	□	□
Unbalanced voltage (60)	□	□	●
Unbalanced current (46)	□	□	●
Synchronization failure (25)	x	x	●
Energy reverse (32)	x	□	●
Alternator under/over excitation (40)	□	●	●
Alarm for lack of fuel	□	●	●
High oil temperature	□	□	□
Warning/shutdown for low water radiator	□	□	□
Alarm/stop for low fuel level	□	●	●
Alarm/stop for broken belt	□	□	□
Battery charger failure alarm	x	□	□
Other features and visualization on display			
Engine preheating timer	x	●	●
Mains lack/return timer	x	●	□
Engine cooling cycle timer	x	●	●
Changeover exchange timer	x	●	●
Mains voltage and frequency inferior/superior limit	x	●	●
Messages in language	●	●	●
Load transient delay timer	●	●	●
Historical report of last 150 events	●	●	●
Interventions counter for changeover device	x	●	●
Display power off	●	●	x
Date and hour	●	●	●
Speed calibration	□	□	●
Fuel level indicator	□	●	●
Stop operation mode by key push-button	□	□	●
Voltage calibration	□	□	□
Timer for preventive maintenance	□	□	□
Oil pressure gauge	□	□	□
Oil temperature gauge	□	□	□
Water temperature gauge	□	□	□
Exhaust gas thermometer	□	□	□
Back synchronizing function	x	x	□
Power management function	x	x	□
Gauge for windings/bearing temperature with alarm visualization	□	□	□
Remote management by RS485 ModBus RTU	□	●	□
Remote management by PC, GSM, TCP/IP, SCADA	□	□	□
Other devices			
Static battery charger	x	●	●
Engine preheating	x	●	●
Free contact for cumulative failure	●	●	●
Back-lighted display	●	●	●
Free contact for electronic card failure	●	●	●
Fuel presence sensor in drip leaks tray	□	□	□
Battery charger ammeter	x	□	□
Refueling card	□	□	□
Earth leakage protection 64/S	□	□	□
Differential protection 87G	x	x	□
Programmable timer for test	□	□	□
Automatic switch for auxiliary circuits	□	□	□
Free contacts	□ (max 16)	□ (max 16)	□ (max 20)
Other functions for mains synchronization			
Isochronous load sharing for active power (95)	x	x	●
Automatic sharing of reactive load with permanent speed drop (95)	x	x	●
Load sharing for reactive power without drop (95)	x	x	□

● = Standard □ = Optional x = Not available

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Soundproofing Solutions

Canopy



Specifically designed for its range of generators, Ausonia can offer to its Customers both standard and customized acoustic enclosures, in order to meet different noise levels requirements and sustain specific environmental conditions.

The canopy is able to house the genset and all its accessories, including the automatic control and monitoring panel.

Suitable for indoor/outdoor installation, Ausonia canopies are built from press-bent modular elements and panels made of electro-galvanized metal sheet. This process allows to apply paint coating on each part before the assembly, significantly reducing the risks of oxidation and even providing robustness and rigidity to the entire structure.

The modularity of the elements also allows easiness in performing maintenance activity, as panels can be detached to facilitate inspection and servicing.

The soundproofing effect of the canopy is obtained by special high-density glass/rock wool panels treated with thermosetting resins, compliant with fire reaction class A1.

Technical features	Standard & Optional
Highly corrosion proof	●
Electrogalvanized steel structure with modular components	●
Stainless steel bolts and rivets	●
Drip leaks tray	□
Galvanized steel rain proof louvers with fixed wings	●
Galvanized steel rainproof louvers with motorized wings	□
AISI 304 or 316 structure and external walls	□
Anti-animal protection grid (air intake)	●
Solution for arctic or desert environment	□
Different soundproofing levels	□
Gas exhaust silencer, residential type	●
Gas exhaust rain protection cap	●
Rain gutter above doors	□
Class A1 fire reaction insulation material	●
Lifting devices applied on skidbase	●
Lifting eyebolts applied on the roof	□
Internal lighting and switches/sockets following IEC rules	□
Doors with yale-type key	●
Porthole for parameters reading on the electric control panel display	□
Easy access to power connection	●
Emergency stop push-button	●
Auxiliary circuits breakers in external box with breakable glass	□
Fire valve with rollaway external command device in box with breakable glass	□
Fire extinguisher	□
Automatic fire-fighting system	□

● = Standard □ = Optional



Container



Developed for installations where time, space and budget do not allow for a dedicated generator room, Ausonia gensets installed in soundproof containers are available in different configurations and dimensions, based on gensets type and kind of applications.

Capable of housing the generator and all relative accessories, the containers made by Ausonia can achieve ultra-low noise levels, suitable for critical noise installations, including hospitals, city centers and residential areas.

The soundproofing of the container is achieved through sound trap screens, made with appropriately protected glass-fibre panels.

All the air inlets and outlets are equipped with rain-shielding shutters protected by galvanized grid to prevent animals from entering.

Whenever required, Ausonia containers having ISO box containers dimensions can be also certified for intermodal and marine transportation.

Technical features	Standard & Optional
External waterborne painting	•
Highly corrosion proof	•
Carbon steel sheet structure	•
External surface in galvanized steel	•
Galvanized steel rain proof louvers with fixed wings	•
Galvanized steel rain proof louvers with motorized wings	□
AISI 304 or 316 structure and external walls	□
Anti-animal protection grid (air intake)	•
Electrofans for DG room cooling	□
Solution for artic or desert environment	□
Different soundproofing levels	□
Gas exhaust silencer, residential type	•
Gas exhaust rain protection cap	•
Rain gutters above doors	□
Class A1 fire reaction insulation material	•
EI 60/90/120 certified	□
Internal lighting and switches/sockets following IEC rules	•
Access doors	•
Lock with internal release device	•
Porthole for parameters reading on the electric control panel display	•
Easy access to power connection	•
Emergency stop push-button in external box with breakable glass	•
Auxiliary circuits breaker in external box with breakable glass	•
Fire valve with rollaway external command device in box with breakable glass	•
Fire extinguisher	□
Automatic fire-fighting system	□

• = Standard □ = Optional

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Services



PROJECT SERVICES

- ▶ PROJECT MANAGEMENT
- ▶ DEPLOYMENT & START-UP
- ▶ COMMISSIONING



MAINTENANCE SERVICES

- ▶ EMERGENCY RESPONSE
- ▶ PREVENTIVE MAINTENANCE
- ▶ REMOTE SERVICES
- ▶ SPARE PARTS



PERFORMANCE OPTIMIZATION SERVICES

- ▶ ASSESSMENT & OPTIMIZATION SERVICES
- ▶ EQUIPMENT UPGRADE & REPLACEMENT
- ▶ ELECTRICAL ENGINEERING SERVICES



TRAINING

- ▶ PRODUCT OVERVIEW
- ▶ PRODUCT OPERATION
- ▶ PRODUCT MAINTENANCE
- ▶ PRODUCT SERVICES



Willing to switch from being a product manufacturer to a solution maker, Asonia has developed its structure to follow the Customers from the initial phases of their energy related projects, offering them also a complete portfolio of energy services, valid along the entire product lifecycle.

By analyzing the Customer's requirements in details and discussing together about the more suitable solution for their needs, Asonia is able to provide different energy offerings solutions, from a pure CAPEX model (Sale of Product) up to a pure OPEX model (Sale of Energy).

Thanks to this wide scenario of energy solutions, Asonia achieved a high level of trust at his Customers and since many years it's recognized as one of the most respected companies in the power business worldwide.

Being active in providing "**Energy as a Service**" for different Customers in very challenging industries like Telecom and Oil&Gas, Asonia counts with a deep experience in understanding the needs of various Customers, who appreciate the value of a single, proactive and reliable partner in business.

In order to have a specific team dedicated to the Energy Services, Asonia has created in 2003 the company **MediPower**, who acts as an ESCO providing energy, even on short term basis, whenever and wherever the Customer requests.

Coordinating the service activities of all the Technical Services Centers spread around the involved territory, the Network Operation Center (NOC) at MediPower HQ performs real-time scheduling and monitoring of the activities of the field teams, as well as a constant remote monitoring and control of the power systems installed on site, for a complete performance and failure prevention analysis.

Constantly optimizing its operational costs in order to share the benefits with its Customers, the company focuses at guaranteeing a high rate of uptime (>99.9%) and at being compliant with the safety and environmental existing regulations, being an undisputed leader for energy services in Italy and in other countries.

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