

MARINE GENERATORS







Solé Diesel manufactures marine generator sets at 50 and 60 hz and power range from 3 kVA (3 kW) up to 180 kVA (144 kW). Solé Diesel generator sets feature a compact size, low sound level, and are built with the most reliable bases in the market: Mitsubishi and Deutz.

RANGE 50 HZ AT 1,500 RPM					
MODEL	BASE ENGINE	POWER*	PHASES	FREQUENCY	RPM
7 GS/GSC	MINI-26	6,6 kVA - 6,6 kW	1	50 Hz	1.500 rpm
8 GT/GTC	MINI-26	7,8 kVA - 6,3 kW	3	50 Hz	1.500 rpm
10 GS/GSC	MINI-33	9,4 kVA - 9,4 kW	1	50 Hz	1.500 rpm
11 GT/GTC	MINI-33	10,5 kVA - 8,4 kW	3	50 Hz	1.500 rpm
14 GS/GSC	MINI-44	13,9 kVA - 13,9 kW	1	50 Hz	1.500 rpm
17 GT/GTC	MINI-44	16,4 kVA - 13,2 kW	3	50 Hz	1.500 rpm
20 GS/GSC	MINI-63	20,1 kVA - 20,1 kW	1	50 Hz	1.500 rpm
25 GT/GTC	MINI-63	24,3 kVA - 19,5 kW	3	50 Hz	1.500 rpm
29 GS/GSC	MINI-74	28,4 kVA - 28,4 kW	1	50 Hz	1.500 rpm
35 GT/GTC	MINI-74	35,0 kVA - 28,0 kW	3	50 Hz	1.500 rpm
45 GT/GTC	SM-56	45,0 kVA - 36,0 kW	3	50 Hz	1.500 rpm
50 GT/GTC	SM-103	48,9 kVA - 39,2 kW	3	50 Hz	1.500 rpm
68 GT/GTC	SM-81	68,3 KVA - 54,7 KW	3	50 Hz	1.500 rpm
85 GT/GTC	SDZ-109	85,0 kVA - 68,0 kW	3	50 Hz	1.500 rpm
115 GT/GTC	SDZ-165	112,4 kVA - 90,0 kW	3	50 Hz	1.500 rpm
165 GT/GTC	SDZ-190E	165 KVA - 132 KW	3	50 Hz	1.500 rpm
RANGE 50 HZ AT 3.000 RPM					

MODEL	BASE ENGINE	POWER	PHASES	FREQUENCY	RPM
4 GSCH v3	YANMAR	3 kVA - 3 kW	1	50 Hz	3.000 rpm
G-8M-3	MINI-17	8 KVA - 8 kW	1	50 Hz	3.000 rpm
G-8T-3	MINI-17	8 KVA - 6,4 kW	3	50 Hz	3.000 rpm
G-15M-3	MINI-26	15 KVA - 15 kW	1	50 Hz	3.000 rpm
G-15T-3	MINI-26	15 KVA - 12 kW	3	50 Hz	3.000 rpm
G-25M-3	MINI-44	25 KVA- 25 kW	1	50 Hz	3.000 rpm
G-25T-3	MINI-44	25 KVA - 20KW	3	50 Hz	3.000 rpm

RANGE 60 HZ AI 1,800 RPM					
MODEL	BASE ENGINE	POWER	PHASES	FREQUENCY	RPM
8 GSA/GSAC	MINI-26	8,0 KVA - 8,0 kW	1	60 Hz	1.800 rpm
10 GTA/GTAC	MINI-26	9,4 KVA - 7,6 kW	3	60 Hz	1.800 rpm
12 GSA/GSAC	MINI-33	12,0 KVA - 12,0 kW	1	60 Hz	1.800 rpm
14 GTA/GTAC	MINI-33	13,6 KVA - 10,9 kW	3	60 Hz	1.800 rpm
17 GSA/GSAC	MINI-44	16,4 KVA - 16,4 kW	1	60 Hz	1.800 rpm
20 GTA/GTAC	MINI-44	19,5 KVA - 15,6 kW	3	60 Hz	1.800 rpm
25 GSA/GSAC	MINI-63	25,1 KVA - 25,1 kW	1	60 Hz	1.800 rpm
30 GTA/GTAC	MINI-63	30,0 KVA - 24,0 kW	3	60 Hz	1.800 rpm
32 GSA/GSAC	MINI-74	31,6 KVA - 31,6 kW	1	60 Hz	1.800 rpm
40 GTA/GTAC	MINI-74	39,0 KVA - 31,2 kW	3	60 Hz	1.800 rpm
60 GTA/GTAC	SM-103	58,3 KVA - 46,7 kW	3	60 Hz	1.800 rpm
84 GTA/GTAC	SM-81	83,60 KVA - 66,88 KW	3	60 Hz	1.800 rpm
100 GTA/GTAC	SDZ-109	97,3 KVA - 77,9 kW	3	60 Hz	1.800 rpm
120 GTA/GTAC	SDZ-165	120,0 KVA - 96,0 kW	3	60 Hz	1.800 rpm
180 GTA/GTAC	SDZ-280	180 KVA - 144 KW	3	60 Hz	1.800 rpm

Models available with parallel operation. For more information consult with the sales department. * Maximum power: Power supplied at maximum capacity. See each data sheet for more information.



7 GS/GSC 6,6 kVA (6,6 kW) 50 Hz 60 HZ MODEL









Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation - SCO 5 Panel
- Owner's and alternator manual



	SU HZ WIDDEL	OU H2 WIDDEL	
Model and ratings			
kW *	6,6	8	
kVA*	6,6	8	
Voltage (V)	230	240	
Amps (A)	28,7	33,3	
Phases	1	1	
Hz	50	60	
	1500	1800	
Weight (Kg)		-	
Canopy version (Dry)	220		
Standard Version (Dry)	19	8	
ALIERNATOR			
Brand	SINC	CRO	
Model	SK160	OSZ1	
Regulator type	Electronic	AVR BL4	
Nr. of poles	4	·	
Insulation Type	H		
IP protection	2	3	
	1		
	Ye	<u>s</u>	
Excitation system	Brusr	iless	
Voltage regulation Accuracy	±1	%	
Frequency Regulation	Synchr		
	EN 60034-1, IEC 60	034-1, 150 6526-3	
ENGINE specification			
Base	Mitsu	bishi	
Solé Diesel Engine Model	MINI	-26	
Туре	4 stroke		
Cylinders	3		
Displacement	95	2	
Bore x Stroke	76 x 7	0 mm	
Compression ratio	23	:1	
	Mechanical	and indirect	
Aspiration type			
Lube OII capacity (L)			
Coolant consoity (L)	SAE 15W4U		
		5	
Flywbeel	SAE 6	1/2	
- Iywiicei		60 H-	
2214	50 HZ	00 HZ	
RPM Bower (HB/kW)	1500 10.1 bp (7.5 kW)	1800	
Coolant flow rate (L/min)	10,1 hp (7,5 kW)	27	
Raw water rate (L/min)	12 33	17.2/	
	12,00	11,24	
	0.8	1 1	
25%	0,8	1,1	
75%	1.3	1,8 2.4	
100%	2.1	2,4	
Diesel Liters /h at % load	∠,⊥	3	
Electrical system			
Electrical System (V)	12	2	
Starter Motor (kW)	1,	2	
Alternator (A)	40	<u>ן</u>	
Stop Solenola Type	EI	π	

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com





8 GT/GTC 7,8 kVA (6,3 kW) 50 Hz

60 HZ MODEL







Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 5 Panel
- Owner's and alternator manual



	50 Hz MODEL	60 Hz MODEL	
Model and ratings			
	6.2	7 5	
KVV **	0,3	7,5	
KVA ^{**}	1,0	9,4	
Voltage (V)	400/230	480/277	
Amps (A)	211,3	2	
Pliases	50	<u> </u>	
	1500	1800	
	1500	1800	
Weight (Kg)			
Canopy version (Dry)	22	24	
Standard version (Dry)	20)1	
ALTERNATOR			
Brand	SING	CRO	
Model	SK16	SOSA	
Regulator type	Electronic	AVR BL4	
Nr. of poles	4	L	
Insulation Type	ŀ	1	
IP protection	2	3	
Cos phi	0,	8	
Tropicalized	S	í	
Excitation system	Brush	nless	
Voltage regulation Accuracy	±1	.%	
Frequency Regulation	Synchr	onous	
Standards	EN 60034-1, IEC 60	034-1, ISO 8528-3	
ENGINE specification			
Base	Mitsu	bishi	
Solé Diesel Engine Model	MIN	I-26	
Туре	4 sti	roke	
Cylinders	3	3	
Displacement	95	52	
Bore x Stroke	76 x 7	0 mm	
Compression ratio	23	:1	
Injection	Mechanical	and indirect	
Aspiration type	Natural a	spiration	
Lube Oil capacity (L)	4		
Oil Type	SAE 1	5W40	
Coolant capacity (L)	3	3	
Housing	SAI	E 5	
Flywheel	SAE 6	§ 1/2	
	50 Hz	60 Hz	
RPM	1500	1800	
Power (HP/kW)	10,1 hp (7,5 kW)	13,4 hp (10 kW)	
Coolant flow rate (L/min)	24	27	
Raw water rate (L/min)	12,33	17,24	
Fuel consumption			
25%	0,8	1,1	
50%	1,3	1,8	
75%	1,7	2,4	
100%	2,1	3	
Diesel Liters/h at % load			
Electrical system			
Electrical System (V)	1	2	
Starter Motor (kW)	1,	2	
Alternator (A)	4	0	
Stop Solenoid Type	ET	R	

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com



10 GS/GSC 9,4 kVA (9,4 kW) 50 Hz 60 HZ MODEL



AVAILABLE WITH TYPE APPROVAL CERTIFICATE





Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation - SCO 5 Panel
- Owner's and alternator manual



	50 Hz MODEL	60 Hz MODEL	
Model and ratings			
kW *	9.4	12	
kVA*	9.4	12	
Voltage (V)	230	240	
Amps (A)	40,9	50	
Phases	1	1	
Hz	50	60	
Engine RPM	1500	1800	
Weight (Kg)			
Canopy version (Dry)	30	08	
Standard version (Dry)	2	71	
ALTERNATOR			
Brand	SIN	CRO	
Model	SK16	OCA1	
Regulator type	Electronic	2 AVR BL4	
Nr. of poles	4	4	
Insulation Type	ŀ	4	
IP protection	2	3	
Cos phi	<u>:</u>	1	
Tropicalized	Ye	es	
Excitation system	Brus	hless	
Voltage regulation Accuracy	±2	1%	
Frequency Regulation	Synch	ronous	
Standards	EN 60034-1, IEC 60	0034-1, ISO 8528-3	
ENGINE specification			
Base	Mitsu	ıbishi	
Solé Diesel Engine Model	MIN	I-33	
Туре	4 st	roke	
Cylinders		3	
Displacement	13	18	
Bore x Stroke	78 x 92 mm		
Compression ratio	22:1		
Injection	Mechanical and indirect		
Aspiration type	Natural aspiration		
Lube Oil capacity (L)		4	
ОіІ Туре	SAE 1	5W40	
Coolant capacity (L)	5	,7 	
Housing	SA	E 5	
Flywneel	SAE	7 1/2	
	50 Hz	60 Hz	
RPM	1500	1800	
Power (HP/kW)	14,3 hp (10,7 kW)	18,5 hp (13,8 kW)	
Coolant flow rate (L/min)	40	47	
Raw water rate (L/min)	16,5	19,83	
Fuel consumption			
25%	1,2	1,4	
50%	1,8	2,2	
75%	2,5	2	
100%	3,1	2,6	
Diesei Liters/n at % load			
Electrical system			
Electrical System (V)	1	2	
Starter Motor (kW)	1	,7	
Alternator (A)	5	0	
Stop Solenoid Type	E	ſR	

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com



11 GT/GTC 10,5 kVA (8,4 kW) 50 Hz

60 HZ MODEL

14 GTA/GTAC 13,6 kVA (10,9 kW) 60 Hz

AVAILABLE WITH TYPE APPROVAL CERTIFICATE



Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation - SCO 5 Panel
- Owner's and alternator manual



	50 Hz MODEL	60 Hz MODEL
Model and ratings		
	0.4	10.0
KVV **	0,4	12.6
	10,5	13,0
	15.2	16 /
Phases	3	3
Hz	50	60
Engine RPM	1500	1800
Weight (Kg)	1000	1000
	3(0
Standard version (Drv)	26	34
	20	
ALIERNATOR		
Brand	SINC	CRO
Model	SK16	SOCA
Regulator type	Electronic	AVR BL4
Nr. of poles	4	L
	F	1
IP protection	2	3
Cos pni	0,	8
	S	-1
Valtaria regulation Accuracy	Brush	11ess
Frequency Regulation	±1 Synchr	.%
Standarda		0110US
	EN 00034-1, IEC 00	1034-1, 130 8528-5
ENGINE specification		
Base	Mitsu	bishi
Solé Diesel Engine Model	MINI-33	
Туре	4 stroke	
Cylinders	3	3
Displacement	13	18
Bore x Stroke	78 x 9	2 mm
Compression ratio	22	:1
	Mechanical	and indirect
Aspiration type		
	4	
	SAE 15W4U	
	5,	7
Flywheel	SAF 7	
Thy whice the		E0 U7
DDM	30 HZ	4000
RPM Dowor (HD/kW)	14.2 hp (10.7 kW)	1800
Coolant flow rate (L (min)	14,5 hp (10,7 kW)	10,5 Hp (13,0 KW)
Paw water rate (L/min)	16.5	10.83
Fuel consumption	10,5	19,00
	1.0	1.2
23%	1,2	2,3
75%	2.0	2
100%	2,5	2,4
Diesel Liters /h at % load	J,1	2,3
Flactrical evetam		
		2
Electrical System (V)	1	2
Starter Motor (kW)	1,	/
Alternator (A)	5	
Stop Solenola Type	EI	R

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com



14 GS/GSC 13,9 kVA (13,9 kW) 50 Hz 60 HZ MODEL



AVAILABLE WITH TYPE APPROVAL CERTIFICATE

AVAILABLE PREPARED FOR PARALLEL OPERATION









Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation SCO 5 Panel
- Owner's and alternator manual



	50 Hz MODEL	60 Hz MODEL
Model and ratings		
kW *	13.9	16.4
kVA*	13.9	16.4
Voltage (V)	230	240
Amps (A)	60.4	68.3
Phases	1	1
Hz	50	60
Engine RPM	1500	1800
Weight (Kg)		
Canopy version (Drv)	3/	1/1
Standard version (Drv)	20	14 94
	2.	
Drend	CIN	200
Brand	SIN	
Nodel	SK16	
Regulator type	Electronic	
		+
	ł	1
IP protection	2	ئ ا
		L
Iropicalized	Ye	es
Excitation system	Brusi	niess
Frequency Regulation	±. Svinchi	L%
Frequency Regulation		
Standards	EN 60034-1, IEC 60	0034-1, 150 8528-5
ENGINE specification		
Base	Mitsu	ıbishi
Solé Diesel Engine Model	MIN	1-44
Туре	4 st	roke
Cylinders	4	1
Displacement	17	58
Bore x Stroke	78 x 9	2 mm
Compression ratio	22	2:1
Injection	Mechanical	and indirect
Aspiration type	Natural aspiration	
Lube Oil capacity (L)		3
Oil Type	SAE 1	5W40
Coolant capacity (L)	8	3
Housing	SA	E 5
Flywheel	SAE	7 1/2
	50 Hz	60 Hz
RPM	1500	1800
Power (HP/kW)	20,1 hp (15 kW)	26,1 hp (19,5 kW)
Coolant flow rate (L/min)	55	66
Raw water rate (L/min)	16,5	20
Fuel consumption		
25%	1,8	1,8
50%	2,7	2,7
75%	3,5	3,3
100%	4,3	4
Diesel Liters/h at % load		
Electrical system		
Electrical System (V)	1	2
Starter Motor (kW)		2
Alternator (A)		0
Stop Solenoid Type	E1	rr

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com



17 GT/GTC 16,4 kVA (13,2 kW) 50 Hz 60 HZ MODEL

20 GTA/GTAC 19,5 kVA (15,6 kW) 60 Hz

AVAILABLE WITH TYPE APPROVAL CERTIFICATE

AVAILABLE PREPARED FOR PARALLEL OPERATION









Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 5 Panel
- Owner's and alternator manual



	50 Hz MODEL	60 Hz MODEL	
Model and ratings			
kW *	13.2	15.6	
kVA*	16.4	19.5	
Voltage (V)	400/230	480/277	
Amps (A)	23,7	23,5	
Phases	3	3	
Hz	50	60	
Engine RPM	1500	1800	
Weight (Kg)			
Canopy version (Drv)	3,	44	
Standard version (Dry)	28	82	
ALTERNATOR			
Prand	CIN	CRO	
Modol	511		
Regulator type	Flectronic		
	Electronic		
		т Н	
	I	1	
Cos nhi	2	8	
Tropicalized			
Excitation system	Brus	hless	
Voltage regulation Accuracy	+	1%	
Frequency Regulation	Synch	ronous	
Standards	EN 60034-1. IEC 60	0034-1, ISO 8528-3	
ENGINE specification	211 0000 1 2,120 0		
	MILSUDISHI		
	MINI-44		
lype	4 St	roke	
Cylinders	47	4	
Displacement		58	
Bore x Stroke	18 X 92 mm		
		2:1	
	Natural aspiration		
Aspiration type			
		5.00	
	5AL 1	2	
		F F	
Flywheel	SAF SAF	7 1/2	
Tiywheel	EO U-	60 H-	
DDM	50 HZ	00 HZ	
	1500	1800	
	20,1 np (15 KW)	∠o,⊥ np (19,5 KW)	
Raw water rate (L/min)	16.5	20	
	C,01	20	
	4.0	1.0	
20%	1,8	1,8	
2U%	2,7	2,1	
10%	3,5	3,3	
100%	4,3	4	
Electrical avetar			
Electrical system			
Electrical System (V)	1	2	
Starter Motor (kW)	:	2	
Alternator (A)	5	0	
Stop Solenoid Type	E	TR	

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com



20 GS/GSC 20,1 kVA (20,1 kW) 50 Hz 60 HZ MODEL



AVAILABLE WITH TYPE APPROVAL CERTIFICATE

AVAILABLE PREPARED FOR PARALLEL OPERATION









Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation - SCO 5 Panel
- Owner's and alternator manual



	50 Hz MODEL	60 Hz MODEL	
Model and ratings			
	20.1	25.1	
κνν · κ/Δ*	20,1	25,1	
Voltage (V)	230	23,1	
Amns (A)	87.4	104.6	
Phases	1	1	
Н	50	60	
Engine RPM	1500	1800	
Woight (Kg)	1000	1000	
		20	
Canopy Version (Dry)	426		
Standard Version (Dry)	40	J2	
ALTERNATOR			
Brand	SIN	CRO	
Model	SK16	OLA1	
Regulator type	Electronic	AVR BL4	
Nr. of poles	4	4	
Insulation Type	ł	4	
IP protection	2	3	
Cos phi		1	
Tropicalized	Ye	es	
Excitation system	Brus	hless	
Voltage regulation Accuracy	±:	1%	
Frequency Regulation	Synch	ronous	
Standards	EN 60034-1, IEC 60	0034-1, ISO 8528-3	
ENGINE specification			
Base	Mitsu	ıbishi	
Solé Diesel Engine Model	MIN	I-63	
Туре	4 st	roke	
Cylinders	4	4	
Displacement	25	05	
Bore x Stroke	88 x 1	03 mm	
Compression ratio	22	2:1	
Injection	Mechanical	and indirect	
Aspiration type	Natural aspiration		
Lube Oil capacity (L)	6	,5	
Oil Type	SAE 1	5W40	
Coolant capacity (L)	9	,5	
Housing	SA	E 4	
Flywheel	SAE	7 1/2	
	50 Hz	60 Hz	
RPM	1500	1800	
Power (HP/kW)	28,8 hp (21,5 kW)	36,5 hp (27,2 kW)	
Coolant flow rate (L/min)	52	65	
Raw water rate (L/min)	38	45	
Fuel consumption			
25%	2,4	2,9	
50%	3,5	4,2	
75%	4,75	5,5	
100%	6,4	7,6	
Diesel Liters/h at % load			
Electrical system			
Electrical System (V)	1	2	
Starter Motor (kW)		2	
Alternator (A)	5	0	
Stop Solenoid Type	E	ſR	

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com



25 GT/GTC 24,3 kVA (19,5 kW) 50 Hz 60 HZ MODEL



AVAILABLE WITH TYPE APPROVAL CERTIFICATE

AVAILABLE PREPARED FOR PARALLEL OPERATION









Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 5 Panel
- Owner's and alternator manual



	50 Hz MODEL	60 Hz MODEL
Model and ratings		
kW *	19,5	24
kVA*	24,3	30
Voltage (V)	400/230	480/277
Amps (A)	35.1	36.1
Phases	3	3
Hz	50	60
Engine RPM	1500	1800
Weight (Kg)		
	1	10
Standard version (Drv)		51
	5	51
Brand	SIN	CRO
Model	SIN SK1	601.4
Regulator type	Flectronic	
Nr of noles	Electronic	
	2	2 2
Cos pril	0	,0
Excitation system	Pruc	blocc
	Drus	10/
Frequency Regulation	I. Synch	1%
Standarda		10110US
	EN 00034-1, IEC 0	0034-1, 130 8528-5
ENGINE specification		
Base	Mits	ubishi
Solé Diesel Engine Model	MINI-63	
Туре	4 st	roke
Cylinders		4
Displacement	25	05
Bore x Stroke	88 x 1	03 mm
Compression ratio	22	2:1
Injection	Mechanical	and indirect
Aspiration type	Natural aspiration	
Lube Oil capacity (L)	6	,5
ОіІ Туре	SAE 1	5W40
Coolant capacity (L)	9	,5
Housing	SA	E 4
Flywheel	SAE	7 1/2
	50 Hz	60 Hz
RPM	1500	1800
Power (HP/kW)	28,8 hp (21,5 kW)	36,5 hp (27,2 kW)
Coolant flow rate (L/min)	52	65
Raw water rate (L/min)	38	45
Fuel consumption		
25%	2,4	2,9
50%	3,5	4,2
75%	4,75	5,5
100%	6,4	7,6
Diesel Liters/h at % load		
Electrical system		
Electrical System (V)	1	.2
Starter Motor (kW)	:	2
Alternator (A)	5	50
Stop Solenoid Type	E	TR
	LIX	

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com



29 GS/GSC 28,4 kVA (28,4 kW) 50 Hz 60 HZ MODEL



AVAILABLE WITH TYPE APPROVAL CERTIFICATE AVAILABLE PREPARED FOR PARALLEL OPERATION







Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 11 Panel
- Owner's and alternator manual

500 11	
(a) (a)	🚺 🚺

	50 Hz MODEL	60 Hz MODEL	
Model and ratings			
kW *	28.4	31.6	
kVA*	28,4	31.6	
Voltage (V)	230	240	
Amps (A)	123.5	131.7	
Phases	1 1		
Hz	50	60	
Engine RPM	1500	1800	
Weight (Kg)			
Canopy version (Dry)	71	L4	
Standard version (Dry)	68	30	
ALTERNATOR			
Brand	MECO	CALTE	
Model**	ECP32-	1M/4C	
Regulator type	Electronic	AVR DSR	
Nr. of poles	2	1	
Insulation Type	ŀ	1	
IP protection	2	3	
Cos phi	0,	,8	
Tropicalized	Ye	es	
Excitation system	Brusl	hless	
Voltage regulation Accuracy	±1%		
Frequency Regulation	Synchronous		
Standards	EN60034-1,	IEC 60034-1	
ENGINE specification			
Base	Mitsu	ıbishi	
Solé Diesel Engine Model	MIN	1-74	
Туре	4 st	roke	
Cylinders	4		
Displacement	33	31	
Bore x Stroke	94 x 120 mm		
Compression ratio	22:1		
Injection	Mechanical and indirect		
Aspiration type	Natural aspiration		
Lube Oil capacity (L)	10		
Oil Type	SAE 15W40		
Coolant capacity (L)	13		
Housing	SAE 3		
Flywheel	SAE 1	1 1/2	
	50 Hz	60 Hz	
RPM	1500	1800	
Power (HP/kW)	41,3 hp (30,8 kW)	47,9 hp (35,7 kW)	
Coolant flow rate (L/min)	105	140	
Raw water rate (L/min)	37,5	44	
Fuel consumption			
25%	2,9	3,1	
50%	4,3	4,8	
75%	6,1	6,8	
100%	8,2	9,6	
Diesel Liters/h at % load			
Electrical system			
Electrical System (V)	1	2	
Starter Motor (kW)	2,	.2	
Alternator (A)	5	0	
Stop Solenoid Type	ET	rr	

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com

*Maximum power: Power supplied at maximum capacity of the genset. For further information see the technical data sheet.

** For the canopy models (29 GSC and 32 GSAC) the alternator model used is: ECP32-1M/4B.



35 GT/GTC 35 kVA (28 kW) 50 Hz

AVAILABLE WITH TYPE APPROVAL CERTIFICATE

60 HZ MODEL

40 GTA/GTAC 39 kVA (31,2 kW) 60 Hz

AVAILABLE PREPARED FOR PARALLEL OPERATION







Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 11 Panel
- Owner's and alternator manual



	50 Hz MODEL	60 Hz MODEL	
Model and ratings			
kW *	28	31.2	
kVA*	35	39	
Voltage (V)	400/230	480/277	
Amps (A)	50,5	46,9	
Phases	3	3	
Hz	50	60	
Engine RPM	1500	1800	
Weight (Kg)			
Canopy version (Dry)	5	45	
Standard version (Dry)	4	94	
ALTERNATOR			
Brand	SIN	CRO	
Model	SK10	50WA	
Regulator type	Electroni	c AVR BL4	
Nr. of poles		4	
Insulation Type		Н	
IP protection	2	23	
Cos phi	0	,8	
Tropicalized	Y	es	
Excitation system	Brus	hless	
Voltage regulation Accuracy	±1%		
Frequency Regulation	Synchronous		
Standards	EN 60034-1, IEC 60034-1, ISO 8528-3		
ENGINE specification			
Base	Mits	ubishi	
Solé Diesel Engine Model	MIN	NI-74	
Туре	4 st	roke	
Cylinders		4	
Displacement	33	3331	
Bore x Stroke	94 x 120 mm		
Compression ratio	22	2:1	
Injection	Mechanical	and indirect	
Aspiration type	Natural aspiration		
Lube Oil capacity (L)	10		
Oil Type	SAE 1	5W40	
Coolant capacity (L)	1	.3	
Housing	SA	SAE 3	
Flywheel	SAE 11 1/2		
	50 Hz	60 Hz	
RPM	1500	1800	
Power (HP/kW)	41,3 hp (30,8 kW)	47,9 hp (35,7 kW)	
Coolant flow rate (L/min)	105	140	
Raw water rate (L/min)	37,5	44	
	0.4	0.4	
25%	2,4	3,1	
50%	4,1	4,8	
10%	6	6,8	
	8,3	9,6	
Diesei Liters/n at % load			
Electrical system		-	
Electrical System (V)	1	2	
Starter Motor (kW)	2	,2	
Alternator (A)	5		
Stop Solenola Type	E	IR	

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com



45 GT/GTC 45 kVA (36 kW) 50 Hz 60 HZ MODEL



AVAILABLE WITH TYPE APPROVAL CERTIFICATE

AVAILABLE PREPARED FOR PARALLEL OPERATION









Standard equipment:

- 4 m electrical extension lead

f

- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 11 Panel
- Owner's and alternator manual



	50 Hz MODEL	60 Hz MODEL
Model and ratings		
	20	40.0
KW (A*	30	42,8
KVA*	400/220	190/077
Amps (A)	400/230	64.4
Phases	3	3
H7	50	60
Engine DDM	1500	1800
	1300	1800
Weight (Kg)		
Canopy version (Dry)	59	98
Standard version (Dry)	56	60
ALTERNATOR		
Brand	MECO	CALTE
Model**	ECP32-	1M/4C
Regulator type	Electronic	AVR DSR
Nr. of poles	4	1
Insulation Type	ŀ	1
IP protection	2	3
Cos phi	0,	,8
Tropicalized	S	δí
Excitation system	Brust	hless
Voltage regulation Accuracy	±1	L%
Frequency Regulation	Synchr	ronous
Standards	EN60034-1, IEC 60034-1	
ENGINE specification		
Base	Mitsu	ıbishi
Solé Diesel Engine Model		
Туре	4 stroke	
Cylinders	4	
Displacement	3331	
Bore 4 Stroke	94 x 120 mm	
Compression ratio	17	:1
Injection	Mechanical and direct	
Aspiration type	Turbocharged	
Lube Oil capacity (L)	10	
Oil Type		
Coolant capacity (L)	13	
Housing	SAF 3	
Flywheel	SAE 11 1/2	
	50 Hz	60 Hz
RPM	1500	1800
Power (HP/kW)	55.1 hp (40.5 kW)	66.1 hp (48.6 kW)
Coolant flow rate (L/min)	105	140
Raw water rate (L/min)	38	45
Fuel consumption		
25%	3.2	4,1
50%	5,2	6,2
75%	7,4	8,9
100%	9.7	12.1
Diesel Liters/h at % load	· · ·	
Electrical system		
Electrical System (V)	1	2
Starter Motor (kW)	2	- 2
Alternator (A)	2, 5	0
Stop Solenoid Type		~ [R
	LI	

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com

*Maximum power: Power supplied at maximum capacity of the genset. For further information see the technical data sheet.

** For the canopy models (45 GTC and 54 GTAC) the alternator model used is: ECP32-1M/4B.)



50 GT/GTC 48,9 kVA (39,2 kW) 50 Hz 60 HZ MODEL



AVAILABLE WITH TYPE APPROVAL CERTIFICATE

AVAILABLE PREPARED FOR PARALLEL OPERATION





Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 11 Panel
- Owner's and alternator manual



	50 Hz MODEL	60 Hz MODEL
Model and ratings		
k/// *	20.2	16.6
kVA*	18.9	58.3
Voltage (V)	40,9	/180/277
	70.6	70.1
Phases	3	3
Hz	50	60
Engine RPM	1500	1800
Weight (Kg)		
Canopy version (Dry)	79	95
Standard version (Dry)	69	90
ALTERNATOR		
Brand	MECO	CALTE
Model**	ECP32	-1M/4C
Regulator type	Electronic	AVR DSR
Nr. of poles	2	4
Insulation Type	ŀ	4
IP protection	2	3
Cos phi	0	,8
Tropicalized	Ye	es
Excitation system	Brus	hless
Voltage regulation Accuracy	±:	1%
Frequency Regulation	Synchronous	
Standards	EN60034-1, IEC 60034-1	
ENGINE specification		
Base	Mitsu	ubishi
Solé Diesel Engine Model	SM-103	
Туре	4 stroke	
Cylinders	6	
Displacement	4996	
Bore x Stroke	94 x 120 mm	
Compression ratio	22:1	
Injection	Mechanical and indirect	
Aspiration type	Natural aspiration	
Lube Oil capacity (L)	12	
Oil Type	SAE 15W40	
Coolant capacity (L)	21	
Housing	SAE 3	
Flywheel	SAE 11 1/2	
	50 Hz	60 Hz
RPM	1500	1800
Power (HP/kW)	58,2 hp (43,4 kW)	68,9 hp (51,4 kW)
Coolant flow rate (L/min)	80	110
Raw water rate (L/min)	38	45
	4	5
50%	6.2	78
75%	0,2	11.0
100%	12.2	15.0
Diesel Liters /h at % load	12,2	15,9
		2
Electrical System (V)	1	2
		0
Alternator (A)	50	
Stoh Soleuola Tybe	E	IR

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com

*Maximum power: Power supplied at maximum capacity of the genset. For further information see the technical data sheet.

** For the canopy models (50 GTC and 60 GTAC) the alternator model used is: ECP32-1M/4B.



68 GT/GTC 68,3 kVA (54,7 kW) 50 Hz 60 HZ MODEL



AVAILABLE WITH TYPE APPROVAL CERTIFICATE

AVAILABLE PREPARED FOR PARALLEL OPERATION







Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 11 Panel
- Owner's and alternator manual



	50 Hz MODEL	60 Hz MODEL
Model and ratings		
kW *	54.7	66.9
kVA*	68.3	83.6
Voltage (V)	400/230	480/277
Amps (A)	98.7	100.6
Phases	3	3
Hz	50	60
Engine RPM	1500	1800
Weight (Kg)		
Canopy version (Drv)	86	:Q
Standard version (Dry)	75	9
	10	
ALIERNATOR		
Brand	MECC	ALTE
Model**	ECP32-	1L/4C
Regulator type	Electronic	AVR DSR
Nr. of poles		•
	F	2
IP protection	2	3
	0,	8
	Bruck	
Voltage regulation Accuracy		0/
Frequency Regulation	±1%	
Standards	ENG0034.1	IEC 60034 1
	LN00034-1,	120 00034-1
ENGINE specification		
Base	Mitsubishi	
Solé Diesel Engine Model	SM-81	
Туре	4 stroke	
Cylinders	6	
Displacement	4996	
Bore x Stroke	94 x 120 mm	
Compression ratio	17:1	
	Mechanical	and indirect
Aspiration type	TUDOCI	harged
Cil Type	12	
Coolant canacity (L)	3AE 1	1
	21	
Flywheel	OAE 3	
Tywieci		
	50 HZ	00 HZ
RPM	1500	1800
Power (HP/kW)	79,9 np (59,6 kW)	93,9 hp (70 kW)
Coolant flow rate (L/min)	70	96
Raw water rate (L/min)	38	45
Fuel consumption		
25%	4,8	6,2
50%	7,8	9,7
75%	11	13,2
100%	14,5	17,4
Diesel Liters/h at % load		
Electrical system		
Electrical System (V)	1:	2
Starter Motor (kW)	3	
Alternator (A)	5	0
Stop Solenoid Type	ET	R

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com

*Maximum power: Power supplied at maximum capacity of the genset. For further information see the technical data sheet.

** For the canopy models (68 GTC and 84 GTAC) the alternator model used is: ECP32-3L/4B.



85 GT/GTC 85 kVA (68 kW) 50 Hz

GTC 100 GTA/GTAC 97,3 kVA (77,8 kW) 60 Hz

AVAILABLE WITH TYPE APPROVAL CERTIFICATE

60 HZ MODEL

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34

865

1627

1760

99



Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 11 Panel
- Owner's and alternator manual



	50 Hz MODEL	60 Hz MODEL
Model and ratings		
	<u></u>	77.0
KW *	68	07.2
KVA*	400/220	97,3
	122.7	117
Phases	3	3
Hz	50	60
Engine BPM	1500	1800
Woight (Kg)	1000	1000
Canopy version (Dry)	110	00
Standard version (Dry)	98	8
ALTERNATOR		
Brand	MECC	ALTE
Model**	ECP34-	1S/4C
Regulator type	Electronic	AVR DSR
Nr. of poles	4	
Insulation Type	Н	
IP protection	23	3
Cos phi	0,8	8
Tropicalized	Ye	s
Excitation system	Brush	less
Voltage regulation Accuracy	±1	%
Frequency Regulation	Synchro	onous
Standards	EN60034-1, I	EC 60034-1
ENGINE specification		
• Base	Dei	17
Solé Diesel Engine Model	SDZ-	109
Type	4 stroke	
Cylinders	4 SUORE	
Displacement	4764	
Bore x Stroke	104 108 v 130 mm	
Compression ratio	19	·1
Injection	Mechanical	and direct
Aspiration type	Turboch	arged
Lube Oil capacity (L)	iuibochargeu	
Oil Type		
Coolant capacity (L)	17	5
Housing	SAE	2
Flywheel	SAE 11	1/2
	50 47	60 H7
	50 112	00112
RPM	1500	1800
Power (HP/kW)	108,6 hp (81 kW)	114 hp (85 kW)
Coolant flow rate (L/min)	141,45	162,13
Raw water rate (L/min)	107,43	130,38
Fuel consumption		
25%	5,5	5,8
50%	10,2	11,2
75%	15	16,1
100%	19,9	20,9
Diesel Liters/h at % load	· · · · ·	
Electrical system		
Electrical System (V)	2/	1
Starter Motor (kW/)	2	•
Alternator (A)	4 วะ	5
Stop Solenoid Type	51	۰ ۶
	EI	-

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com

*Maximum power: Power supplied at maximum capacity of the genset. For further information see the technical data sheet.

** For the canopy models (85 GTC and 100 GTAC) the alternator model used is: ECP34-1S/4A.



115 GT/GTC 112,4 kVA (90 kW) 50 Hz 60 HZ MODEL



AVAILABLE WITH TYPE APPROVAL CERTIFICATE

AVAILABLE PREPARED FOR PARALLEL OPERATION





Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 11 Panel
- Owner's and alternator manual



	50 Hz MODEL	60 Hz MODEL	
Model and ratings			
kW *	90	96	
kVA*	112,4	120	
Voltage (V)	400/230	480/277	
Amps (A)	162,2	144,3	
Phases	3	3	
Hz	50	60	
Engine RPM	1500	1800	
Weight (Kg)			
Canopy version (Drv)	11	17	
Standard version (Drv)	10)10	
ALTERNATOR			
Brand	MEC	CALTE	
Model**	FCP34	-1M/4C	
Regulator type	Electronic		
Nr of poles	Licotionin	4	
IP protection		2	
Cos phi	0	8	
Tropicalized	Y	es	
Excitation system	Brus	hless	
Voltage regulation Accuracy	Drusfiless 		
Frequency Regulation	Synchronous		
Standards	EN60034-1. IEC 60034-1		
ENGINE specification	,		
	D-		
Salé Diagol Engino Modol	De	165	
	4 stroke		
Cylinders	4 SUOKE		
Displacement	4		
Bore x Stroke	108 x 130 mm		
Compression ratio	10.1		
	Mechanical and direct		
Aspiration type	Turbocharged	with intercooler	
Lube Oil capacity (L)	11		
Oil Type			
Coolant capacity (L)	17.5		
Housing	SAE 2		
Flywheel	SAE 1	1 1/2	
	50 Hz	60 Hz	
BPM	1500	1800	
Power (HP/kW)	130.1 hp (97 kW)	140.8 hp (105 kW)	
Coolant flow rate (L/min)	141.45	162.13	
Raw water rate (L/min)	107,43	130,38	
Fuel consumption			
25%	63	83	
50%	11 1	14 5	
75%	16.2	21.1	
100%	21.5	28	
Diesel Liters/h at % load			
Electrical system			
Electrical System (1/)	~	24	
Starter Motor (kW)	2	- - 4	
Alternator (A)	4		
Stop Solenoid Type	F	TS	
	L		

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com

*Maximum power: Power supplied at maximum capacity of the genset. For further information see the technical data sheet.

** For the canopy models (115 GTC and 120 GTAC) the alternator model used is: ECP34-1L/4A.



165 GT/GTC 165 kVA (132 kW) 50 Hz

AVAILABLE PREPARED FOR PARALLEL OPERATION

60 HZ MODEL

180 GTA/GTAC 180 kVA (144 kW) 60 Hz





Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 11 Panel
- Owner's and alternator manual



	50 Hz MODEL	60 Hz MODEL
Model and ratings		
kW *	132	144
kVA*	165	180
Voltage (V)	400/230	480/277
Amps (A)	238,2	216,7
Phases	3	3
Hz	50	60
Engine RPM	1500	1800
Weight (Kg)		
Canopy version (Drv)	16	30
Standard version (Dry)	14	10
	-1	10
ALIERNATUR		
Brand	MEC	CALTE
Model	EC038	3-1S/4A
Regulator type	Electronic	CAVR DSR
Nr. of poles		4
Insulation Type		H
IP protection	2	23
Cos phi	0	,8
Tropicalized	Y	es
Excitation system	Brus	hless
Voltage regulation Accuracy	±:	1%
Frequency Regulation	Synchronous	
Standards	EN60034-1,	IEC 60034-1
ENGINE specification		
Base	De	utz
Solé Diesel Engine Model	SDZ-190E	
Туре	4 stroke	
Cylinders	6	
Displacement	7146	
Bore x Stroke	108 x 130 mm	
Compression ratio	17.	.5:1
Injection	Mechanical and direct	
Aspiration type	Turbocharged with intercooler	
Lube Oil capacity (L)	23	
Oil Type	SAE 1	5W40
Coolant capacity (L)	23	
Housing	SAE 3	
Flywheel	SAE 11 1/2	
	50 Hz	60 Hz
RPM	1500	1800
Power (HP/kW)	186,4 hp (139 kW)	198,5 hp (148 kW)
Coolant flow rate (L/min)	141.45	162.13
Raw water rate (L/min)	107.43	130.38
Fuel consumption		
25%	10 /	1/
50%	20	27
75%	20	21
100%	20,0	10 F
	30,1	49,0
Flectrical system		
Electrical System (V)	2	24
Starter Motor (kW)		4
Alternator (A)	55	
Stop Solenoid Type	E	TS

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com











Standard equipment:

- 10 m electrical extension lead
- Oil extraction pump
- Base frame with silentblocks
- vibration attenuation - SCO 5 Panel
- Owner's and alternator manual

SCOR	a	-	
	1	-	2
			0
	1 🧕	F	

	50 Hz MODEL
Model and ratings	
kW *	3
kVA*	3
Voltage (V)	230
Amps (A)	13
Phases	1
Hz	50
Engine RPM	3000
Weight (Kg)	
Canopy version (Dry)	96
Standard version (Dry)	-
ALTERNATOR	
Brand	V.T.E
Model	V090
Regulator type	Capacitor
Nr. of poles	2
Insulation Type	-
IP protection	-
Cos phi	1
Tropicalized	Yes
Excitation system	Brushless
Voltage regulation Accuracy	±1%
Frequency Regulation	Synchronous
Standards	EN60034-1, IEC 60034-1, ISO 8528-3
ENGINE specification	
Base	Yanmar
Engine Model	YANMAR
Туре	4 stroke
Cylinders	1
Displacement	320
Bore x Stroke	78 x 67 mm
Compression ratio	20:1
Injection	Mechanical and direct
Aspiration type	Natural aspiration
Lube Oil capacity (L)	1,1
Oil Type	SAE 15W40
Coolant capacity (L)	1,2
Housing	-
Flywheel	-
	50 Hz
RPM	3000
Power (HP/kW)	6,12 hp (4,5 kW)
Coolant flow rate (L/min)	-
Raw water rate (L/min)	-
Fuel consumption	
25%	0,4
50%	0,7
<u></u>	1,1
100%	1,3
Diesel Liters/h at % load	
Electrical system	
Electrical System (V)	12
Starter Motor (kW)	1,2
Alternator (A)	-
Stop Solenoid Type	ETS

Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com



G-8M-3 8 kVA (8 kW) 50 Hz





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	()	CEQ3)	
	12	8F	661
	A.C.	药料	
/			
241 241	1	241	-

	50 Hz MODEL	
Model and ratings		
kW *	8	
kVA*	8	
Voltage (V)	230	
Amps (A)	34,8	
Phases	1	
Hz	50	
Engine RPM	3000	
Weight (Kg)		
Canopy version (Dry)	-	
Standard version (Dry)	165	
ALTERNATOR		
Brand	MECCALTE	
Model	ES20FS-130	
Regulator type	AVR ASR	
Nr. of poles	2	
Insulation Type	Н	
IP protection	23	
Cos phi	1	
Tropicalized	Yes	
Excitation system	Brush	
Voltage regulation Accuracy	±2,5%	
Frequency Regulation	Synchronous	
Standards	EN60034-1, IEC 60034-1	
ENGINE specification		
Base	Mitsubishi	
Solé Diesel Engine Model	MINI-17	
	1 stroke	
Cylinders	2	
Displacement	952	
Bore v Stroke		
	23:1	
	Mechanical and indirect	
	Natural aspiration	
Coolant canacity (L)	27	
Housing	5AF 5	
Flywheel	SAF 6 1/2	
- iy micer	50 Hz	
RPM	3000	
Power (HP/kW)	13.5 hp (10.1 kW)	
Coolant flow rate (L/min)	13,5 np (10,1 kW)	
Raw water rate (L/min)	28	
	23	
Fuel consumption	1.0	
25%	1,3	
50%	1,9	
10%	2,6	
100%	3,4	
Diesel Liters/h at % load		
Electrical system		
Electrical System (V)	12	
Starter Motor (kW)	1,2	
Alternator (A)	40	
Stop Solenoid Type	ETR	

Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 5 Panel

- Owner's and alternator manual



Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com

 $^{\ast}\ensuremath{\mathsf{Maximum}}$ power: Power supplied at maximum capacity of the genset. For further information see the technical data sheet.



G-8T-3 8 kVA (6,4 kW) 50 Hz





	50 Hz MODEL
Model and ratings	
k/// *	6.4
kw ·	0;4
Noltago (V)	8
	11 5
Phases	3
H7	50
Engine RPM	3000
Weight (Kg)	0000
Standard version (Drv)	- 175
	1/5
ALTERNATOR	
Brand	MECCALTE
Model	ET20FS-130
Regulator type	AVR ASR
Nr. of poles	2
Insulation Type	Н
IP protection	23
Cos phi	0,8
Tropicalized	Yes
Excitation system	Brush
Voltage regulation Accuracy	±2,5%
Frequency Regulation	Synchronous
Standards	EN60034-1, IEC 60034-1
ENGINE specification	
Base	Mitsubishi
Solé Diesel Engine Model	MINI-17
Туре	4 stroke
Cylinders	2
Displacement	952
Bore x Stroke	76 x 70 mm
Compression ratio	23:1
Injection	Mechanical and indirect
Aspiration type	Natural aspiration
Lube Oil capacity (L)	2,8
	SAE 15W40
Coolant capacity (L)	2,1
Housing	SAE 5
Flywneel	SAE 6 1/2
	50 HZ
	3000
Power (HP/kW)	13,5 hp (10,1 kW)
Coolant flow rate (L/min)	28
Raw water rate (L/min)	29
Fuel consumption	
25%	1,3
50%	1,9
15%	2,6
	3,4
Diesel Liters/h at % load	
Electrical system	
Electrical System (V)	12
Starter Motor (kW)	1,2
Alternator (A)	40
Ston Solenoid Type	ETR

Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 5 Panel
- Owner's and alternator manual



Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com



G-15M-3 15 kVA (15 kW) 50 Hz





	50 Hz MODEL
Model and ratings	
//// *	15
κ.νν κ.νΔ*	15
Voltage (V)	230
Amps (A)	65.2
Phases	1
Hz	
Engine RPM	3000
Weight (Kg)	
Standard version (Drv)	
	223
ALTERNATOR	
Brand	MECCALTE
Model	ECP-28 2L/2
Regulator type	Electronic AVR DSR
Nr. of poles	2
Insulation Type	Н
IP protection	23
Cos phi	1
Tropicalized	Yes
Excitation system	Brushless
Voltage regulation Accuracy	±1%
Frequency Regulation	Synchronous
Standards	EN60034-1, IEC 60034-1
ENGINE specification	
Base	Mitsubishi
Solé Diesel Engine Model	MINI-26
Туре	4 stroke
Cylinders	3
Displacement	952
Bore x Stroke	76 x 70 mm
Compression ratio	23:1
Injection	Mechanical and indirect
Aspiration type	Natural aspiration
Lube Oil capacity (L)	4
Oil Type	SAE 15W40
Coolant capacity (L)	3
Fluxback	SAE 5
riywneei	SAE 6 1/2
	50 HZ
RPM	3000
Power (HP/kW)	21,9 hp (16,3 kW)
Coolant flow rate (L/min)	43
Raw water rate (L/min)	29,5
Fuel consumption	
25%	1,7
50%	3
75%	4,1
100%	5
Diesel Liters/h at % load	
Electrical system	
Electrical System (V)	12
Starter Motor (kW)	1,2
Alternator (A)	40
Stop Solenoid Type	ETR

Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 5 Panel

- Owner's and alternator manual



Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com



G-15T-3 15 kVA (12 kW) 50 Hz







	50 Hz MODEL
Model and ratings	
	10
	12
Voltage (V)	400/230
Amps (A)	21 7
Phases	3
Hz	50
Engine RPM	3000
Weight (Kg)	
Canopy version (Dry)	-
Standard version (Dry)	225
ALTERNATOR	
Brand	MECCALTE
Model	ECP3-1L/2
Regulator type	Electronic AVR DSR
Nr. of poles	2
Insulation Type	Н
IP protection	23
Cos phi	0,8
Tropicalized	Yes
Excitation system	Brushless
Voltage regulation Accuracy	±1%
Frequency Regulation	Synchronous
	EN60034-1, IEC 60034-1
ENGINE specification	
Base	Mitsubishi
Solé Diesel Engine Model	MINI-26
Туре	4 stroke
Cylinders	3
Displacement	952
Bore x Stroke	76 X 70 mm
	23:1 Mashaniaal and indirast
Aspiration type	Natural appiration
Coolant capacity (L)	3
Housing	SAE 5
Flywheel	SAE 6 1/2
	50 Hz
RPM	3000
Power (HP/kW)	21,9 hp (16,3 kW)
Coolant flow rate (L/min)	43
Raw water rate (L/min)	29,5
Fuel consumption	
- 25%	1 7
50%	3
75%	4 1
100%	5
Diesel Liters/h at % load	
Electrical system	
Electrical System (V)	12
Starter Motor (kW)	1.2
Alternator (A)	40
Stop Solenoid Type	ETR

Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 5 Panel
- Owner's and alternator manual



Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com



G-25M-3 25 kVA (25 kW) 50 Hz





	50 Hz MODEL
Model and ratings	
	25
KW **	25
Noltago (V)	25
	108.7
Phases	1
H7	50
Engine RPM	3000
Weight (Kg)	
Standard version (Drv)	
	555
ALTERNATOR	
Brand	MECCALTE
Model	ECP 28-VL/2
Regulator type	Electronic AVR DSR
Nr. of poles	2
Insulation Type	Н
IP protection	23
Cos phi	1
Tropicalized	Yes
Excitation system	Brushless
Voltage regulation Accuracy	±1%
Frequency Regulation	Synchronous
Standards	EN60034-1, IEC 60034-1
ENGINE specification	
Base	Mitsubishi
Solé Diesel Engine Model	MINI-44
Туре	4 stroke
Cylinders	4
Displacement	1758
Bore x Stroke	78 x 92 mm
Compression ratio	22:1
Injection	Mechanical and indirect
Aspiration type	Natural aspiration
Lube OII capacity (L)	6
	SAE 15W40
	0 SAE 5
Ehuthool	SAE 3
riywneei	5AE 7 1/2
	50 HZ
RPM	3000
Power (HP/kW)	41,4 hp (30,9 kW)
Coolant flow rate (L/min)	100
	33
	2.0
2010 50%	5,0
75%	1,C
10.0%	7 0
	1,0
Electrical system	
Electrical System (V)	12
Starter Motor (kW)	2
Alternator (A)	50
Stop Solenoid Type	ETR

Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 5 Panel

- Owner's and alternator manual



Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com



G-25T-3 25 kVA (20 kW) 50 Hz





	50 Hz MODEL
Model and ratings	
	20
KW *	20
KVA**	23
Voltage (V)	400/230
Phases	30,1
	50
Engine PPM	3000
Weight (Kg)	3000
Callopy Version (Dry)	
	335
ALTERNATOR	
Brand	MECCALTE
Model	ECP-28 2L/2
Regulator type	Electronic AVR DSR
Nr. of poles	2
Insulation Type	Н
IP protection	23
Cos phi	1
Tropicalized	Yes
Excitation system	Brushless
Voltage regulation Accuracy	±1%
Frequency Regulation	Synchronous
Standards	EN60034-1, IEC 60034-1
ENGINE specification	
Base	Mitsubishi
Solé Diesel Engine Model	MINI-44
Туре	4 stroke
Cylinders	4
Displacement	1758
Bore x Stroke	78 x 92 mm
Compression ratio	22:1
Injection	Mechanical and indirect
Aspiration type	Natural aspiration
Lube Oil capacity (L)	6
Oil Type	SAE 15W40
Coolant capacity (L)	8
Housing	SAE 5
Flywheel	SAE 7 1/2
	50 Hz
RPM	3000
Power (HP/kW)	41,4 hp (30,9 kW)
Coolant flow rate (L/min)	100
Raw water rate (L/min)	33
Fuel consumption	
25%	3,6
50%	5,1
75%	6,5
100%	7,8
Diesel Liters/h at % load	
Electrical system	
Electrical System (V)	12
Starter Motor (kW)	2
Alternator (A)	50
Stop Solenoid Type	ETR

Standard equipment:

- 4 m electrical extension lead
- Oil extraction pump
- Welded steel base frame with
- silentblocks vibration attenuation
- SCO 5 Panel
- Owner's and alternator manual



Dimensions in millimetres. This drawing is provided for reference only. For further information, please visit our website www.solediesel.com



SCO 11 PANEL

TECHNICAL SPECIFICATIONS

GENERAL DESCRIPTION

Graphic LCD display with 128 x 64 pixel backlight
6 binary outputs to positive
6 binary inputs to positive
Dual protection E.stop terminal
Generator measurements (see Screen Information)
Configuration protected by password levels
Operating hours indicator
Multilingual up to 5 languages
Remote Start/Stop
Dual panel
Generator protections (see Alarm Management)
Preheating function
D+ pre-excitation terminal
CAN bus inf. output with J1939 SAE protocol
USB type B for configuration
Low power mode
Integrated PLC
Detailed history
Supply voltage: 12/24V DC with protection fuse Consumption: <200mA
DIMENSIONS AND WEIGHT
Dimensions: 195 x 135 x 47 mm
Cut dimensions: 170 x 110 x 44
Weight: 450 g"
OPERATING CONDITIONS
Operating temperature: -20 +70°C
Humidity: 95% Without condensation
Front panel protection: IP65
STANDARD CONFORMITY
Low Voltage Directive EN 61010-1
Electromagnetic Compatibility EN 61000-6-2, EN 61000-6-4
Safety Requirements for Electrical Equipment EN 61010-1
SCREEN INFORMATION
Measurement:
Voltage L1-L3 (V)
Frequency (Hz)
Oil pressure (bar)
Coolant temperature (°C)
Battery voltage (V DC)
rpm
Active power* (kW)
Apparent power* (kVA)
Current* (A)
PF*
History log
ALARM MANAGEMENT
Shutdowns (SD)

Shutdowns (SD)
High coolant temperature
Low oil pressure
Overspeed
Overload*
Short circuit*
Over/Under current*
Over/Under voltage
Over/Under frequency
Emergency shutdown
Alarms (WRN)
High coolant temperature
Low oil pressure
High/low battery voltage
Maintenance request
Sensor fails (FLS)



FUNCTION DESCRIPTION

OFF mode

MAN mode (manual start/stop of generator) AUT mode (automatic start/stop of generator)

OPTIONAL EQUIPMENT

SCO 11 Double panel:

 SCO 11 Double panel allows the same operation and functionality as Main SCO 11. They are connected by RS485 port with a communication wire, available in 12/24/36 m.

SCO 11 dual panel:

 The SCO 11 dual panel offers the same options and functionalities as the main SCO 11 panel. They are connected via the RS485 port of the dual panel communication module by means of a cable, available in 12/24/36 m.

Current transformers:

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• Measurements of current (A), active power (kW), apparent power (kVA) and PF of the generator.

Extension module Binary inputs/outputs

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* The specific function requires the current transformer (optional equipment), in order to display the info on SCO10 panel.



SCO 5 PANEL

TECHNICAL SPECIFICATIONS

GENERAL DESCRIPTION

Graphic LCD with light Display, 128 x 64 pixels
3 LED indicators
Marine genset measures (see display information)
Marine genset protections (see alarm management)
Running hour indicator
Type B USB for programming
Programming from the same panel
Universal Interface
Preheating function
D+ preexcitation terminal
CAN bus output with SAEJ1939 protocol
2 multipurpose timers

DIMENSIONS AND WEIGHT

Dimensions: 118 x 108 x 43 mm Weight: 256g OPERATING CONDITIONS Operating temperature: -20 +70°C Humidity: 95% Without condensation

Protection front panel: IP65 STANDARD CONFORMITY

Low Voltage Directive: EN 61010-1:95 +A1:97 Electromagnetic Compatibility: EN 50081-1:94, EN 50081-2:96, EN 50082-1:99, EN 50082-2:97

DISPLAY INFORMATION

Measurement:
L1-L3 Voltage (V)
Frequency (Hz)
Oil Pressure (bar)
Coolant Temperature (°C)
Battery Voltage (V DC)
rpm
Active Power* (kW)
Apparent Power* (kVA)
Current* (A)
PF*
History log

ALARM MANAGEMENT

Shut Downs (SD)
High coolant temperature
Low oil pressure
Overspeed
Overload*
Short circuit*
Overcurrent*
Over/Under voltage
Over/Under frequency
Emergency stop
Warnings (WRN)
High coolant temperature
Low oil pressure
High/Low battery voltage
Maintenance request
Sensor Fails (FLS)

FUNCTION DESCRIPTION

OFF Mode

MAN Mode (manual start/stop engine)	
AUT Mode (auto start/stop engine)	

* The specific function requires the current transformer (optional equipment), in order to display the info on SCO5 panel.



OPTIONAL EQUIPMENT

Current transformers:

• Current (A), Active Power (kW), Apparent Power (kVA) and PF genset measures.

Isolated transformers:

• Voltage transformer unit to separate mains voltage and controller with voltage ratio 1:1.



GENERATORS SYNCHRONIZED FOR PARALLEL OPERATION

WHAT IS PARALLEL OPERATION OF GENERATOR SETS?

The configuration for parallel operation consists of synchronizing two or more generator sets that are coupled together with the same frequency and voltage. They then operate jointly, supplying power to the same network. In this way, energy can be generated in large quantities, which could never be supplied by a single generator set with the same specifications.

The parallel operation system keeps one main generator set switched on and connected to the network at all times. The main generator set may be a different unit from time to time. By alternating the operation of the generator sets in this way, their working hours are distributed across the generator sets, staggering their maintenance.

As soon as the demand for electricity increases beyond a pre-set limit, the system starts up the next generator set and automatically connects it to the network.

The load is then distributed equally among all the generator sets that are connected. When the load falls below the pre-set limit, the appropriate generator sets are automatically switched off and stopped.

For maintenance purposes, it is possible to keep providing the power supply even if one of the generator sets is out of use. The system detects this, and will disregard this equipment.

SOME OF THE MOST IMPORTANT ADVANTAGES OF USING PARALLEL OPERATION SYSTEMS ARE:

- The possibility of supplying quantities of energy in a way that is more efficient and consumes less fuel. This is due to the fact that parallel operation systems are better able to adapt to the current energy needs. They are able use one unit when there is low consumption, and connect or disconnect more units depending on the level of network load.
- The **reliability** provided by the fact that more than one generator set is operating at the same time. This avoids failures, and guarantees that there is a power supply at all times.
- The safety provided by a system that allows maintenance tasks to be carried out on one of the units while the other units continue to
 operate, maintaining the power supply at all times, under any circumstances. This power supply would be guaranteed if the main unit
 fails, or is undergoing maintenance.
- * The reduction in maintenance required for each generator set, as the operating hours for each unit are decreased.



WHY IS PARALLEL OPERATION WITH SOLÉ DIESEL GENERATOR SETS THE BEST OPTION?

At Solé Diesel, we want to make things convenient for our customers, facilitating the start up of this complex equipment. As a result, we have set ourselves apart from the other solutions that are on the market, by offering a **Plug & Play** system. This consists of a generator set that is ready for parallel operation, as well as an electrical cabinet that includes a power switching system and a controller which are fully configured for this application.

Technological advances have made it possible for these operations to be carried out automatically, using a specific controller for the parallel operation of generator sets. Each generator set has a controller that regulates the frequency and voltage. These parameters must be maintained in the same proportion in all the generators to ensure optimum performance. In addition, these controllers succeed in delivering a significant reduction in time, complications and costs incurred during start-up.



WHAT OPTIONS DO WE OFFER?

At Solé Diesel, we offer two supply levels for the parallel operation generator set system. The combination of both levels provides an easy to install experience that is 100% safe and effective.

OPTION 1

The Parallel Operation Ready Generator Set is ideal for replacing one or more generator sets that are integrated within an existing parallel operation system.

It includes the Generator set, the electronic controller and the Engine Control Unit ECU. The scope of this supply would not include any control panels, or synchronizing or switching equipment.

EQUIPMENT

Parallel Operation Ready Generator Set

- Generator Set that is ready for parallel operation.
- The panel and the control and power cabinet are not included. • ECU
- · Electronic Actuator Control wiring



OPTION 2

Parallel Operation Ready Generator Set (Option 1) + Parallel Operation Control and Power Kit. This complements the Parallel Operation Ready Generator Sets level, including all the equipment needed to set up a functional parallel operation system.

This is our Full Equip option, which is highly recommended for boats where a parallel operation system is being installed for the first time. As it is **Plug&Play**, there is no need to carry out any complex configuration or installation of the parallel operation system. Simply connect the Cabinet Kit to the generator set, and to the network. This is the option that is recommended by Solé Diesel, as it saves the user money on engineering and installation costs.

EQUIPMENT

Parallel Operation Ready Generator Set (Option 1) + Parallel Operation Control and Power Kit

- · Generator Set that is ready for parallel operation.
- The panel and the control and power cabinet are not included. • ECU
- Electronic Actuator
- Control wiring
- InteliGen2000 Control Panel
- Control and Power Cabinet For parallel operation Communication wiring
- Control wiring
- Load break switch
- Amperometric transformers
- Electrical protections





TYPE APPROVAL GENERATOR SETS

STANDARD OPERATION

Our DNV Type Approval certified generator sets are ideal for maximum performance especially in professional applications. All certified groups are accompanied by the corresponding documentation confirming international regulatory compliance.

WHAT DO WE OFFER?

Unlike other manufacturers, Solé Diesel is certified not only for the generation set but also for the auxiliary version engine. Solé Diesel has a wide range of models both in standard and ready to work in parallel. All of them offer a comfortable user experience, easy installation and maintenance.

STANDARD EQUIPMENT AND CHARACTERISTICS OF APPROVED GENSETS

- TAC-certified alternator for generator sets
- TAC engine monitoring and control system
- Maximum power: can run with overload (110% over rated power)
- Insulation of hot surfaces according to TAC regulations
- · Belt protection
- · Spray stop on pipe connections containing flammable liquids
- · Double-walled diesel tubes
- · Double diesel filter
- · Rubber hoses with inner textile reinforcement and equipped with double clamp
- · Mechanical connections and screw joints
- Earth isolated

PREPARED TO WORK IN PARALLEL

The configuration for working in parallel consists of synchronize two or more generator sets, coupled with the same frequency and voltage, so they offer a combined operation which allows power to be supplied to the same grid. Thereby, energy is generated in a large amount, which is impossible to supply with a single generator set of the same characteristics.

- · Efficiency and lower fuel consumption due to parallel systems can adapt to the energy needs of the moment.
- The reliability of having more than one generator set operating at the same time, which prevents breakdowns and always ensures power supply.
- · Security. Power supply is guaranteed in case of maintenance on the main unit.
- · Maintenance reduction by reducing individual working hours on each genset.





OPTION 1

The generator set is prepared to operate in parallel and is ideal for replacing one or more generator sets which are integrated into an existing parallel system.

It includes the generator set certified with the above-mentioned TAC requirements and characteristics, and additionally the electronic actuator and the ECU engine control unit.

EQUIPMENT

TAC generator set prepared to operate in parallel

- TAC Generator set prepared for parallel system
- ECU
- Electronic actuator
- Control wiring
- · AC engine monitoring and control system



OPTION 2

TAC generator set prepared to operate in parallel (Option 1) + TAC Power and Control Parallel Kit

It complements the level of the generator set ready to operate in parallel with all necessary equipment to have a functional parallel system.

This is our Full Equip option, which is highly recommended for boats where a parallel operation system is being installed for the first time.

There is no complex configuration or installation of the system in parallel because it is Plug&Play. Simply connect the Box Kit to the group and the grid.

This is the option recommended by Solé Diesel as it saves the user engineering and installation costs.

EQUIPMENT

TAC generator set ready to operate in parallel (Option 1) + TAC Power and Control Parallel Kit

- TAC generator set prepared to operate in parallel TAC engine monitoring and control system
- ECU
- Electronic regulator
- Control wiring
- TAC switching and synchronization system Communication and control wiring Amperometric transformers
- Electrical protections which ensure safety of people and equipment



Solé Diesel's recommended option