



110/230 v instructions auto frequency select 110 V / 60 hz 230 V / 50 hz

> 2400va 3600va 5000va 1600w 2500w 3500w continuous power with P.F.C charger

230V AO

230V AC

Pure Sine Wave Combined inverter chargers

ProCombi S

ProCombi C

2400va 3600va 5000va 1500w 2500w 3500w continuous power with P.F.C charger

Quasi Sine Wave Combined inverter chargers



All power sizes English Warranty (2 years return to factory)





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Check list

1)Ensure that the inverter has the correct d/c voltage for your boat or vehicle system. ie 12 or 24V.

2)Fit as close to the batteries as possible. The shorter the d/c cables the better. Voltage drop on long cables will effect the unit's performance.3)Do not reverse the cables! Connect the red cable to the positive terminal and the black cable to the negative terminal of the battery. In the event of reverse polarity the unit could be totally destroyed.4)Always use the inverter in an environment which is

well ventilated, not exposed to direct sunlight or a heat source, away from water, moisture, oil or grease, away from any highly inflammable substance, out of reach from children.

5)The output voltage of this unit must never be on your AC system at the same time as any other a/c source such as the 230V external mains line or a generator. All external power must go through the Combi.6)Always switch on the Combi first, before plugging in any appliance.7)Under new electrical legislation only professional electricians should install this product.

Ensure the fitting instructions are fully understood before fitting this product.

Installation

1) Position the unit as close to the main battery bank as possible.

2) Position in a cool, dry & well ventilated space.

3) Orientation of the unit is not critical.

4) Either purchase the standard cable set from Sterling which is about 1.5 metres, or, if using your own cable, use the cable size chart provided on the installation drawing to ensure you have thick enough cable for the D/C leads. In the event of not being able to get the size requested (it can be hard to get thick cable) then simply add multiple length of thinner cable, i.e. If you cannot get 90mm cable then use 3 x 30mm cable, at the end of the day its just copper we need.

5) Fit a fuse suitable for the job, again look at the installation drawing, Sterling have a full range of high current fuses in the GANLR range of gold fuse products, ranging from 100-500 amps. On the d/c side 6) Connect the cables from the batteries to the fuse then to the unit, this way if there is a fault at the unit the fuse is already in place and this will be safe. In the event of a isolation switch being used, please ensure the rating of the switch can handle the power of the unit.

7)Ensure the unit is switched off during installation.

8) On the a/c side ensure the shore power (all external a/c sources) are totally disconnected, connect the output from the inverter to suitable Residual Current Breaker (R.C.D. for earth protection) and current over-load trips. Fuse the a/c input side depending on through power requirements, the max through power is 30 amps, so fuse at 40A (allowing also for charger consumption) if you intend to use the full through power for standard 13-16 amps throughput then a 20A fuse would be appropriate.

9) Sterling recommend Multi core tri rated a/c cable, if used on a boat or vehicle, as this is much safer where vibration is likely. Only use single solid household a/c cable if the product is being used as a power source for a house or platform free of vibration.

10) Before attempting to switch on the unit, please ensure you have selected the correct battery type on the small battery type selector switch on the front of the main box, rotate the switch to your battery type. The Progressive charge control software will automatically adjust for battery bank size and state.

Batter Type Selector, for 24V x voltages by 2

Switch setting	Boo	st Float
0) to be used by fac	tory for	set up
1)Gel usa	14	13.7
2)AGM 1	14.1	13.4
3)AGM 2	14.6	13.7
4)sealed lead acid	14.4	13.6
5)gel euro	14.4	13.8
6) open lead acid	14.8	13.3
7)calcuim	15.1	13.6
8)de sulphation	15.5 4	hrs then off

9)not used

FOR 24 VOLTS X2 Charging curves for the 4 step Digital Pro active battery charger



The battery type and charge voltage recommendations are set out above. For 24V unit x the above by 2. Some battery types may look confusing such as gel usa and gel euro, AGM usa and AGM euro. If you find this confusion then join the club, we have had the different voltage curves supplied to us by different companies form the U.S.A. and Europe for what we seem the same product, however, it's not our call, we simply supply the options, if in doubt call your battery supplier and ask which charge voltage they want you to use for their battery type, and select the closest to it. If totally confused then use the lower voltage setting until you have had a higher voltage setting confirmed to you by whoever supplied the batteries to you. The de-sulpation cycle on switch position 8 is marked in red because this is a very dangerous setting if you do not know what your are doing. Before even attempting to use this cycle you must clearly understand what it does and when and how you would use it. What causes sulphation 2Sulphation occurs with infrequent use of the

What causes sulphation?Sulphation occurs with infrequent use of the batteries, or if the batteries have been left discharged so low that they will not accept a charge. This cycle is a very high voltage charge cycle designed to try to break down the sulphate 'crust' that is preventing the plates taking a charge and thus allow the plates to clean up and so accept charge once again.

How to use this function. (only suitable for open lead acid batteries) 1) Ensure the battery bank is totally isolated from anything else on the boat or vehicle; the high voltage applied by this setting could destroy all your electronics and other electrical equipment still connected (hence all these instructions are in red, this is a very expensive mistake).

2) Make sure the battery compartment is very well ventilated and battery caps are removed.

3) Switch the battery type selector switch to the correct position, then switch the a/c power on.

4) Because this is such a dangerous setting there is a 4 hr time out period build into the software, however, on a very large battery bank this may not be enough and the unit may need to be switched off and on again to do another cycle.

What to expect on this cycle.

I would recomend you monitor the voltage of the sulphated battery bank. When you switch on the cycle the voltage should shoot up to the full 15.5 volts very fast (within minutes) this is because the batteries cannot accept the charge (assuming they are sulphated). However, over a period of 1-2 hrs the voltage should start to drop (as the plates start to clean and the batteries start to take a charge) the voltage could drop way down to about 12.5 volts then start to rise. This shows the batteries are now taking a charge and starting to fill up. In this case it would be safe to switch the unit off and select your normal charging curve and hopefully this will bring your batteries back from the dead. You may need to repeat the process a few times. Please note this is a professional guess tool, which most times helps, but its not magic, so expect the worst and hope for the best. Never leave a system unattended when on this mode. If the battery temperature reaches above 50 deg C (i.e. if the batteries are almost too hot to touch) then stop the process).

Install remote control.

Isolate the unit before attempting this so there are no high voltages. The local control panel on the front of the unit can also be used as a remote control, simply slide the 2 end sections off to reveal the screws holding the panel onto the main box, carefully remove the panel and disconnect it from the connection socket behind the unit. Fill the hole on the main unit using the blank replica of the remote control unit.

Using the remote cable supplied then re-connect the panel to the unit Combi: Operation and what to expect

After the unit is installed, using the panel on the front of the unit, and with the shore power (230V a/c) still disconnected, switch the unit on. The LEDs will cycle through their test routine, then the unit should go into inverter mode and 230V should be produced on the output a/c terminals (provided the batteries are over 11 volts).
 If the above is ok, then connect the shore power to feed 230V into the combi, after a short while, the inverter should go offline, and feed the shore power through the inverter. Changeover is about 20 milli secs (so fast that you should not be able to notice it) and the battery charger should come on-line and go through it's charge sequence ending, after 1-10 hrs, with float voltage.

Common Faults:

% C U R R E

There are numerous faults which the unit can detect and transmit the fault to you by the use of LEDs and alarm on the unit itself. The remote control gives a little help but the real fault finding can only take place at the unit. Please see the fault finding chart over the page for full information.

		0	0		0 0		
General s	pecification		Pro Co	ombi Q	Pro Combi S 15	00-2500 watt	3500 w
Input Way	/e form:		Sir	nusoidal	Pure sine wave		pure sine wave
Nominal \	Voltage:	110 or 230 v	(different mo	dels)	110v or 230v a/c	(different models)	*
Low volta	ige trip:	90 v (110 v)	.184v (230 v)+/- 4%	90 v (110 v) .18	4v (230 v)+/- 4%	*
Minimum	engage:	95 v (110v)	194v (230 v)	+/- 4%	95 v (110v) 19	4v (230 v) +/- 4%	*
High volta	age trip:	125 v (110v)	263v (230 v)	+/- 4%	125 v (110v) 26	3v (230 v) +/- 4%	*
High volta	age re engag	e: 123 v (110v) 243v (230 v	') +/- 4%	123 v (110v) 24	3v (230 v) +/- 4%	*
Max input	t a/c voltage:	130 V (1	10 V) 270 V (2	230V)	$130 \vee (110 \vee) 2$	70 V (230V)	*
l ow freq	trip:	40 bz for	50 hz 50 hz f	or 60 hz	40 bz for 50 bz	50 bz for 60 bz	*
High freq	trip:	53 hz for	50 hz, 62 hz fo	or 60 hz	53 hz for 50 hz	62 hz for 60 hz	*
Output wa	ave form:	(on by pass	mode) same	as input	(on by pass mod	le) same as input	*
Overload	protection :		Circuit	breaker	Circuit breaker		*
Short circ	uit protectio	n :	Circuit	breaker	Circuit breaker		*
Transfer s	switch rating	:		30 amp	30 amp		30/50 a
Efficiency	on line tran	sfer mode:		96%+	95%+		*
Line trans	sfer time :			20 ms	20 ms		*
Bypass w	ithout batter	y connected :	0	yes	yes		20/50
Max by pa	ass current :	ront	35 amps	U amps	30 amp		30/30
by pass c	specification	/output	55 amps	S. Alalili	Inverter Specifi	cation / output	*
Output wa	ave form: M	odified Sine W	ave/ Quasi sin	e wave	Pure sine wave	cation / output	*
Output co	ontinuos pow	er watts	1600 250	00	cont 2100w	2500 for 15 min	3500/15
Output co	ontinuos pow	ver VA	2400 36	00	3100	3800	5000
Power fac	ctor:		0.	.9- 1.0	0.9-1.0	0000	*
Nominal of	output voltag	je rms :		230vav	230vav		*
Max volta	ige rms :			260vac	260vac		*
Output vo	ltage regulation	tion:	+/- 1	0% rms	+/- 10% rms		*
Output fre	equency:	50hz+/-0	0.3hz or 60hz+	⊦/-0.3hz	50hz+/-0.3hz or	60hz+/-0.3hz	*
Transient	response tin	ne: <150ms;09	% to 100% RC	D load	<150ms;0% to 1	00% RCD load	*
Nominal e	efficiency :			>85%	>80%	DOGGE	*
Surge rat	ings : 1500m	odel =4500va	2500model =	7200va	PQS1500=4500va	PQS2500=7200va	*
Online cu	irrent consur	nption at 12 v/	24 12v1.8a 2	24v 0.9a	same		*
Power sa	ver mode cui	rrent consump	otion 12v0.4a 2	24v 0.2a	same	avelos	*
Short circ	suit protectio	n: y	es, less than .	3 cycles	Inverter Specifi	cation / input	*
Nominal i	precincation,	12 or 24 v	, depending or	n model	12 or 24 v deper	ding on model	**
Minimum	start voltage	10 v for 12	2 v model 20v	for 24 v	10 v for 12 v mo	del 20v for 24 v	*
Low batte	erv alarm:	10.5v for 12	v model 21v	for 24 v	10.5v for 12 v m	odel 21v for 24 v	*
Low batte	ery trip:	10 v for 12	2 v model 20v	for 24 v	10 v for 12 v mo	del 20v for 24 v	*
High volta	age alarm:	15.5 for 1	2v model 30v	for 24 v	15.5 for 12v mod	del 30v for 24 v	*
Power sa	ver:	below 2	0 watts when e	enabled	below 20 watts	when enabled	*
Power sa	ver : can	be switched or	n/off on remote	e control	Same switched	on/off on remote	*
Charger M							
Charger	Node specific	cation			Charger Mode s	specification	*
Input volt	Node specific age range:	cation	196-245 \	v ac	Charger Mode s 196-245 v ac	specification	*
Input volt Output vo	Mode specific age range: bltage:	dependent on	196-245 v battery type s	v ac election	Charger Mode s 196-245 v ac dependent on ba	attery type	* * *
Input volt Output vo Output cu	Mode specific age range: bltage: urrent 12 v m	dependent on odel: 15	196-245 v battery type s 500- 40a 250	v ac election 0 - 50a	Charger Mode s 196-245 v ac dependent on ba 1500- 50a 2500	attery type	* * 12v100a th
Input volt Output vo Output cu Output cu Battory in	Mode specific age range: bltage: urrent 12 v m urrent 24 v m	dependent on odel : 15 odel : 15	196-245 v battery type s 500- 40a 250 500- 20a 250 15v for 12 v v	v ac election 0 - 50a 0 - 25a	Charger Mode s 196-245 v ac dependent on ba 1500- 50a 2500 1500- 25a 2500 0-15v for 12 v x	attery type 0 - 70a 0 - 35a 2 /24y	* * 12v100a th 24v50a
Input volt Output vo Output cu Output cu Battery in	Mode specific age range: bltage: urrent 12 v m urrent 24 v m itial voltage	dependent on odel: 15 odel: 15 for start up: 0-	196-245 v battery type s 500- 40a 250 500- 20a 250 -15v for 12 v x 15 7 12 v x 2	v ac election 0 - 50a 0 - 25a 2 /24v for 24 v	Charger Mode s 196-245 v ac dependent on ba 1500- 50a 2500 1500- 25a 2500 0-15v for 12 v x 15 7 12 v x 2 for	attery type 0 - 70a 0 - 35a 2 /24v r 24 v	* * 12v100a th 24v50a *
Input volt Output volt Output cu Output cu Battery in Over char Charger o	Mode specific age range: bltage: urrent 12 v m urrent 24 v m itial voltage rge protectio	dependent on odel: 15 odel: 15 for start up: 0- n shutdown: 10 n shutdown: 10	196-245 x battery type s 500- 40a 250 500- 20a 250 -15v for 12 v x 15.7 12 v x 2 urrent)Batter	v ac election 0 - 50a 0 - 25a 2 /24v for 24 v	Charger Mode s 196-245 v ac dependent on ba 1500- 50a 2500 1500- 25a 2500 0-15v for 12 v x 15.7 12 v x 2 for Charger curves	attery type 0 - 70a 0 - 35a 2 /24v r 24 v	* * 12v100a th 24v50a * *
Input volt Output volt Output cu Output cu Battery in Over char Charger cu 4 st	Mode specific age range: bltage: urrent 12 v m itial voltage rge protectio curves (4 stag ep digital co	dependent on odel: 15 odel: 15 for start up: 0- n shutdown: ge constant cu ntrolled progr	196-245 v battery type s 500- 40a 250 500- 20a 250 -15v for 12 v x 15.7 12 v x 2 urrent)Battery essive charge	v ac election 0 - 50a 0 - 25a 2 /24v for 24 v y types	Charger Mode s 196-245 v ac dependent on ba 1500- 50a 2500 1500- 25a 2500 0-15v for 12 v x 15.7 12 v x 2 for Charger curves Same as Pro C	attery type 0 - 70a 0 - 35a 2 /24v r 24 v 6 ombi Q	* * 12v100a th 24v50a * * *
Input volt Output volt Output cu Output cu Battery in Over char Charger c 4 st Battery ty	Mode specific age range: bltage: urrent 12 v m urrent 24 v m itial voltage rge protectio curves (4 stag eep digital co roe chi	dependent on odel: 15 odel: 15 for start up: 0- n shutdown: ge constant cu ntrolled progri	196-245 v battery type s 500- 40a 250 500- 20a 250 -15v for 12 v x 15.7 12 v x 2 urrent)Battery essive charge	v ac election 0 - 50a 0 - 25a : 2 /24v for 24 v y types e r 24 v	Charger Mode s 196-245 v ac dependent on ba 1500- 50a 2500 1500- 25a 2500 0-15v for 12 v x 15.7 12 v x 2 for Charger curves Same as Pro C Same	attery type 0 - 70a 0 - 35a 2 /24v r 24 v ombi Q	* * 12v100a th 24v50a * * * * *
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Charger of Output vol Output vol Output cu Battery in Over char Charger of 4 st Battery ty Gel U.S.A A.G.M. 1 A.G.M. 2	Mode specific rage range: oblage: urrent 12 v m urrent 24 v m itial voltage rge protectio curves (4 stag rep digital co vpe cha 1 1	dependent on odel : 15 odel : 15 for start up: 0- n shutdown: ge constant cu ntrolled progra arge v fl 4.0 4.1	196-245 v battery type s 500- 40a 250 500- 20a 250 -15v for 12 v x 15.7 12 v x 2 urrent)Battery essive charge oat v x 2 fo 13.7 13.4 13.7	v ac election 0 - 50a 0 - 25a : 2 /24v for 24 v y types e or 24 v	Charger Mode s 196-245 v ac dependent on ba 1500- 50a 2500 1500- 25a 2500 0-15v for 12 v x 15.7 12 v x 2 for Charger curves Same as Pro C Same same same same	attery type) - 70a) - 35a 2 /24v r 24 v ombi Q	* * 12v100a th 24v50a * * * * * * *
Charger of Output volt Output cu Battery in Over char Charger of 4 st Battery ty Gel U.S.A A.G.M. 1 A.G.M. 2 Sealed Le	Mode specific age range: obtage: urrent 12 v m urrent 24 v m itial voltage rge protectio curves (4 stag rep digital co vpe cha 1 1 1 ad Acid 1	dependent on odel : 15 odel : 15 for start up: 0- n shutdown: ge constant cu ntrolled progra arge v fil 4.0 4.1 4.6 4.4	196-245 v battery type s 500- 40a 250 500- 20a 250 -15v for 12 v x 15.7 12 v x 2 urrent)Battery essive charge oat v x 2 fo 13.7 13.4 13.7 13.6	v ac election 0 - 50a 0 - 25a 2 /24v for 24 v y types e or 24 v	Charger Mode s 196-245 v ac dependent on ba 1500- 50a 2500 0-15v for 12 v x 15.7 12 v x 2 for Charger curves Same as Pro C same same same same	attery type) - 70a) - 35a 2 /24v r 24 v ombi Q	* * 12v100a th 24v50a * * * * * * *
Charger of Output volt Output cu Battery in Over char Charger of 4 st Battery ty Gel U.S.A A.G.M. 1 A.G.M. 2 Sealed Le Gel Euro	Mode specific age range: obtage: urrent 12 v m urrent 24 v m itial voltage rge protectio curves (4 stag rep digital co vpe cha 1 1 ad Acid 1	cation dependent on odel : 15 odel : 15 for start up: 0- n shutdown: ge constant cuntrolled programe ntrolled programe 4.0 4.1 4.6 4.4 4.4	196-245 v battery type s 500- 40a 250 500- 20a 250 -15v for 12 v x 15.7 12 v x 2 urrent)Battery essive charge oat v x 2 fo 13.7 13.4 13.7 13.6 13.8	v ac election 0 - 50a 0 - 25a : 2 /24v for 24 v y types e or 24 v	Charger Mode s 196-245 v ac dependent on ba 1500- 50a 2500 0-15v for 12 v x 15.7 12 v x 2 for Charger curves Same as Pro C Same same same same same	attery type) - 70a) - 35a 2 /24v r 24 v ombi Q	* * 12v100a th 24v50a * * * * * * * * * * *
Charger of Output volt Output volt Output cu Battery in Over char Charger of 4 st Battery ty Gel U.S.A A.G.M. 1 A.G.M. 2 Sealed Le Gel Euro Open Lear	Mode specific age range: obtage: urrent 12 v m urrent 24 v m itial voltage rge protectio curves (4 stag rep digital co rpe cha 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	cation dependent on odel : 15 odel : 15 for start up: 0- n shutdown: ge constant cu ntrolled progra- arge v fil 4.0 4.1 4.6 4.4 4.4 4.4 5.4 5.5 5.5 5.5 5.5	196-245 v battery type s 500- 40a 250 500- 20a 250 -15v for 12 v x 15.7 12 v x 2 urrent)Battery essive charge oat v x 2 fo 13.7 13.4 13.7 13.6 13.8 13.3	v ac election 0 - 50a 0 - 25a 2 /24v for 24 v y types e or 24 v	Charger Mode s 196-245 v ac dependent on ba 1500- 50a 2500 0-15v for 12 v x 15.7 12 v x 2 for Charger curves Same as Pro C Same same same same same same	attery type) - 70a) - 35a 2 /24v r 24 v ombi Q	* * 12v100a th 24v50a * * * * * * * * * * * * * * * * * * *
Charger of Output volt Output volt Output cu Battery in Over char Charger of 4 st Battery ty Gel U.S.A A.G.M. 1 A.G.M. 2 Sealed Le Gel Euro Open Lear Calcium	Mode specific rage range: obtage: urrent 12 v m urrent 24 v m itial voltage rge protectio curves (4 stag rep digital co rpe cha 1 ad Acid 1 d acid 1 tian	cation dependent on odel : 15 odel : 15 for start up: 0- n shutdown: ge constant cuntrolled programe ntrolled programe 4.0 4.1 4.6 4.4 4.8 5.1 5.5	196-245 v battery type s 500- 40a 250 500- 20a 250 -15v for 12 v x 15.7 12 v x 2 urrent)Battery essive charge oat v x 2 fo 13.7 13.4 13.7 13.6 13.8 13.3 13.6	v ac election 0 - 50a 0 - 25a : 2 /24v for 24 v y types e or 24 v	Charger Mode s 196-245 v ac dependent on ba 1500- 50a 2500 0-15v for 12 v x 15.7 12 v x 2 for Charger curves Same as Pro C Same same same same same same same same s	specification attery type 0 - 70a 0 - 35a 2 /24v r 24 v ombi Q	* * 12v100a th 24v50a * * * * * * * * * * * * * * * * * * *
Charger of Output volt Output volt Output cu Battery in Over char Charger of 4 st Battery ty Gel U.S.A A.G.M. 1 A.G.M. 2 Sealed Le Gel Euro Open Lear Calcium De-sulpha	Mode specific rage range: obtage: urrent 12 v m urrent 24 v m nitial voltage rge protectio curves (4 stag rep digital co pe cha 1 1 1 2 2 2 2 2 2 3 3 4 4 4 4 4 4 4 2 2 3 3 4 4 4 4	dependent on odel : 15 odel : 15 for start up: 0- n shutdown: ge constant cu ntrolled progra 4.0 4.1 4.6 4.4 4.4 4.4 4.8 5.1 5.5 for 4 hrs	196-245 v battery type s 500- 40a 250 500- 20a 250 -15v for 12 v x 15.7 12 v x 2 urrent)Battery essive charge oat v x 2 fo 13.7 13.4 13.7 13.6 13.8 13.3 13.6	v ac election 0 - 50a 0 - 25a : 2 /24v for 24 v y types e or 24 v	Charger Mode s 196-245 v ac dependent on ba 1500-50a 2500 0-15v for 12 v x 15.7 12 v x 2 for Charger curves Same as Pro C Same same same same same same same same s	specification attery type 0 - 70a 0 - 35a 2 /24v r 24 v ombi Q	* * 12v100a th 24v50a * * * * * * * * * * * * * * * * * * *
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on

on

Mode

Line mode overload

Over temperature

Back voltage

Remote control controls The remote control has 3 functions 1)Auto: should be left in this position under normal operations, this automatically converts the unit to a battery charger and passes power through the unit to the ring main when the shore power / gen set is active, then switches to an inverter when the shore power is removed. If when on inverter and there is no load online the unit will drop from inverter on mode to power saver mode, this reduces the inverter power consumption from about 1.8 amps to about 0.2 amps (on standby 12 v) however, the unit requires a load in excess of about 30 watts to re-engage automatically. 2) Off, the unit is off, 100% charger and inverter, no power consumption. 3)Power saver off. The unit is now an inverter charger (as if the auto was on) however, it will not go onto power saver mode, this is normally used for example if a mobile phone requires to be charged urgently then by switching to power saver off, the inverter will come online regardless of the load demand. it's a good idea to switch back to auto or off after the function you required is

complete otherwise you will waste power with the unit being held active if there is no load on the unit.



Pro Combi

Shore power on line battery charger active Inverter power on line, battery charger active Charger on fast charge mode Charger on float charge mode Over temperature trip Over load trip Power save function on line 0800 310 2100