Combined Inverter Chargers

Pure Sine Wave. Simulates domestic and shore power wave purity enabling any appliance to run from it. By stripping away all unnecessary functions the Combis are simple and provide a cost effective solution that meets the need of 90%+ of the consumer base.

30A automatic crossover switch: If shore power is connected to the combithe switch allows you to run your appliances from the shore power. However, when shore power is disconnected, the switch moves over to take current from the batteries. Switching time is 20ms.

Battery Charger sizes 40A - 100A

Charger only select option (on pure sine wave only). Allows unit to be set so in event of shore power failure the inverter does not engage.

Earth - Neutral bonding link when on inverter mode to comply with latest regulations. This allows RCD breakers to

Power Factor Corrected

(PFC)

12V and 24V models **2500W 3500W**

8 Battery type selectors.
All with their own 4 stage charging profiles.

Online Current consumption as low as 1.4A. Now fitted with new TX transformer results in 50% less quiescent current.

European use 230V 50Hz



Pro Combi S Pure Sine Wave 230V 50Hz Euro Standard

DC Voltage	Power (W)	Charger (A)	SKU
12	2500	55	PCS122500
12	3500	100	PCS123500
24	2500	55	PCS242500
24	3500	100	PCS243500

Quasi Sine Wave: Partially simulating domestic and shore power wave purity - enabling majority of appliances to run from it (~95%) - the exceptions are thyristor controlled appliances (washing machines) and very accurate apparatus (medical). If in doubt, ALWAYS go for a Pure Sine Wave.

Standards (Pure/Quasi) EN61000-3-2 EN61000-3-3 EN50081-1 EN60335-2-29

European use 230V 50Hz



Pro Combi Q	Quasi Sine	Wave 230V 50	Hz Euro Standard
DC Voltage	Power (W)	Charger (A)	SKU
12	1600	40	PCQ121600
12	2500	70	PCQ122500
24	1600	40	PCQ241600
24	2500	70	PCQ242500

Features a power saver function.

Remote Control with 10m cable switches unit on / off select / deselect power saver mode (standard with both Pure / Quasi)



North America 110V 60Hz

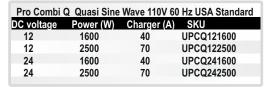
Pro Combi S pure Sine Wave 110V 60 Hz USA Standard				
DC Voltage	Power (W)	Charger (A)	SKU	
12	2500	55	UPCS122500	
12	3500	100	UPCS123500	
24	2500	55	UPCS242500	
24	3500	100	UPCS243500	

12V and 24V models:

1600W 2500W

Features similar to that of the **Pure Sine Wave**.

North America 110V 60Hz



Detailed Specification Sheet

General specification	Pro Combi Q	Pro Combi S
	•	Pure sine wave
Input Wave form:	Pure sine wave	
Nominal Voltage:	Input 230V AC 110V USA	Input 230V AC 110V USA 184V+/- 4% Euro 95V USA
Low voltage trip:	184V+/- 4% Euro 92V USA	
Minimum engage voltage:	voltage 194V +/- 4% 97V USA	voltage 194V +/- 4% 97V USA
High voltage trip:	270V +/- 4% 128V USA	253V +/- 4% 126V USA
High voltage re engage:	253V +/- 4% 122V USA	243V +/- 4% 121V USA
Max input AC voltage:	270V rms 135V USA	270V rms 135V USA
Nominal input frequency:	50 Hz or 60 Hz auto detect	50hz or 60hz auto detect
Low freq trip:	47 Hz for 50 hz, 58 Hz for 60 Hz	48 Hz for 50 hz, 58 Hz for 60 Hz
High freq trip:	53 Hz for 50 Hz, 62 Hz for 60 Hz	53 Hz for 50 Hz, 62 Hz for 60 Hz
Output w ave form:	(on by pass mode) same as input	(on by pass mode) same as input
Overload protection :	Circuit breaker	Circuit breaker
Short circuit protection :	Circuit breaker	Circuit breaker
Transfer switch rating :	30A	30A
Efficiency on line transfer mode:	96%+	95%+
Line transfer time :	20 ms	20 ms
Bypass without battery connected :	yes	yes
Max bypass current :	30A	30A
Bypass over load current :	35A Alarm	35A Alarm
Inverter Specification / output		
Output w ave form:	Quasi / Modified Sine Wave	Pure / True Sine Wave
Output continuos power watts	1600W 2500W	2500W 3500W
Output continuos pow er VA	2000VA 2800VA	2800VA 3900VA
Pow er factor:	0.9- 1.1	0.9- 1.0
Nominal output voltage rms :	230V 110V USA	230V 110V USA
Max voltage rms :	260V 130V USA	260V 130V USA
Output voltage regulation:	+/- 10% rms	+/- 10% rms
Output frequency:	50hz+/-0.3hz or 60hz+/-0.3hz	50hz+/-0.3hz or 60hz+/-0.3hz
Transient response time:	<150ms;0% to 100% RCD load	<150ms;0% to 100% RCD load
Nominal efficiency :	>85%	>85%
Surge ratings :	1500W = 4500VA 2500W = 7200VA	2500W = 3200VA 3500W = 4200VA
Online current consumption 12V / 24V	12V 1.2A 24V 1A with new TX transformer	12V 1.2A 24V 1A with new TX
Pow er saver mode current consumption	12V 0.4A 24V 0.2A	12V 0.4A 24V 0.2A
Short circuit protection:	yes, less than 3 cycles	yes, less than 3 cycles
Inverter Specification / input	40)/ av 24)/ day !! !!-	10)/ 00 24)/ do = == ###
Nominal input voltage :	12V or 24V depending on model	12V or 24V depending on model
Minimum start voltage :	10V or 20V depending on model	10V or 20V depending on model
Low battery alarm	10.5V for 12V model 21V for 24V	10.5V for 12V model 21V for 24V
Low battery trip:	10V for 12V model 20V for 24V	10V for 12V model 20V for 24V
High voltage alarm:	15.5V for 12V model 30V for 24V	15.5V for 12V model 30V for 24V
Pow er saver threshold:	below 20W when enabled	below 20W when enabled
Pow er saver :	Can be sw itched w ith remote	Can be switched with remote
Charger Mode specification		
Input voltage range:	196-245V AC 96-130V AC (USA)	196-245V AC 96-130V AC (USA)
Output voltage:	Battery type dependent	Battery type dependent
Output current 12V model:	1600W- 40A 2500W- 55A	1600W - 40A 2500W - 55A

To make the choice even simpler we have 6 months exchange/upgrade policy. If you purchase a Pro Combi Q and find there is some equipment that you cannot run due to the Quasi Sine wave and require Pure Sine wave, Sterling are happy to upgrade your quasi-sine unit for pure sine wave with the only cost being the difference between the 2 products (unit must be sent direct to Sterling and in good condition and postage paid for by customer). Offer applies dealing direct to the Sterling factory only.