



COMBO MIL SINEWAVE INVERTER / CHARGER

SERIES COMBO GS / GRS

One Unit – 3 functions: Charging, UPS, AC-Power

The Combo GS and GRS series are modular „building block“ sinewave inverter/chargers that can be used for both small and large power systems.

Each inverter/charger is a complete power conversion system - DC to AC inverter, battery charger and AC transfer switch.

Additional inverter/chargers can be connected at any time in either parallel or in three-phase 230Y400VAC configurations.

This allows a system to be tailored to meet the specific power conversion requirements of the application, both at the time of the installation and in the future.

Conformal coated circuit boards, a powder coated die-cast aluminum chassis protects the unit's internal components from the environment, resisting water, dust and corrosion.

APPLICATIONS

Combo GS (Sealed)

- Marine & other rugged environments
- Demanding environments

Combo GRS (Rugged. Sealed)

- All mobile MIL applications as tanks, trucks, building equipment
- Ruggedized to meet parts of MIL STD 810 Wheeled & Tracked Profiles

FEATURES

- Ruggedized / Tropicalized
- Waterproof IP62
- Environmentally Tolerant
- Built-in intelligent Battery Charging System up to 70 A continuous charging current
- 5-Stage, intelligent charger (bulk, absorb, float, silent, manual EQ)
- Built-in automatic AC-Transferswitch (max. switch capacity 30A)
- Programmable AUX output
- Programmable generator start (Relaiscontact)
- Smooth, true sinewave AC output
- Inverter/chargers can be stacked from 1400VA up to 14000 VA of continuous AC power
- 3-Phase configuration possible
- Remote control optional available
- All relevant parameters programmable and stored in a non volatile memory



Pure Sinewave



Charger



Transfer switch



Stand-by Mode



Remote control port



Extended temperature range



Multiple electronic protection



Waterproof



Programmable (optional)



Digital display (optional)

SPECIFICATIONS

Inverter/Charger Model		ComboGS 1312- 230/50 MIL	ComboGS 1424- 230/50 MIL	ComboGS 1448- 230/50 MIL			
Electrical Specifications Inverter							
Nominal DC-Input Voltage	VDC	12	24	48	12	24	48
DC-Input Range (adjustable low battery cut-out)	VDC	10.5 - 17	21 - 34	42 - 68	10.5 - 17	21 - 34	42 - 68
Nominal AC-Output	VAC / Hz	230 / 50 (120 / 60 Version available)					
Output Voltage Regulation	%	+/- 2 Typ					
Continuous Power Rating at 25° C	VA	1300	1400	1400	1300	1400	1400
Derating	VA/°C	-20 above 25° C ambient temperature					
Overload (from 25° C start) 30min	VA	1800	2000	2000	1800	2000	2000
Overload (from 25° C start) 5 sec	VA	2900	2900	2900	2900	2900	2900
Overload (from 25° C start) surge 100 ms	VA	4600	4600	4600	4600	4600	4600
Continuous AC-Output	AAC RMS	5.65	6.09	6.09	5.65	6.09	6.09
Maximum Output Current 1 ms	AAC Peak	28	28	28	28	28	28
Maximum Output Current 100ms	AAC RMS	20	20	20	20	20	20
Typical Efficiency	%	90	92	93	90	92	93
Total Harmonic Distortion (typ/max)	%	2 / 5					
Idle Power (Sleep ~6VA)	VA	~18					
Electrical Specifications Charger							
AC-Input Voltage Range	VAC	140 - 280					
AC-Input Frequency Range	Hz	45 - 55					
AC-Input Current max (adjustable limits)	AAC	16					
Continuous Battery Charge Current (adjustable)	ADC	70	40	20	70	40	20
Specifications Transferswitch							
Current capacity	AAC	30					
MIL Standards							
MIL STD 461E		•	•	•	•	•	•
Meets portions of MIL STD 810 Tracked Profiles					•	•	•
Other Specifications							
Operating temperature range	°C	- 40 to +60					
Sealed		•	•	•	•	•	•
Connecton DC		DC Clamps					
Connecton AC		Round connector output CA 3GD and input CA 3GS (custom version available on request)					
Dimensons (LxWxH)	cm	41 x 21 x 33					
Weight	Kg	25			25.5		
Shipping weight	Kg	27.5			28		

