

Combo MIL Sinewave Inverter / Charger



Pure sinewave



Charger



Transfer switch



Stand-by mode



Remote control port



Extended temperature range



Multiple electronic protection



Waterproof (S / RS-Version)



Programmable (optional)



Digital display (optional)

Applications

Combo V (Vented)

- Stationary MIL power
- Emergency Power Backup (UPS)

Combo S (Sealed)

- Marine & other rugged environments

- Demanding environments

Combo RS (Rugged. Sealed)

- All mobile MIL applications as tanks, trucks, building equipment
- Ruggedized to meet parts of MIL STD 810 and MIL STD 1275D Wheeled & Tracked Profiles

Series Combo V / S / RS

Description

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

The ComboV/S/RS 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.

The sinewave inverter is designed to survive harsh environments anywhere in the world.

Combo RS Inverter/Charger is considered the most rugged design available on the market.

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.

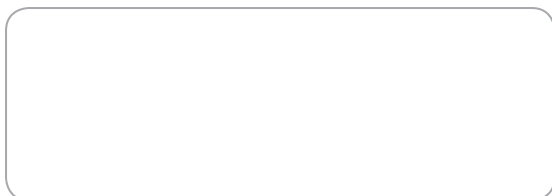
Features

- Ruggedized / Tropicalized
- S and RS -Version waterproof to IEC529, IP 64
- Bug-proof construction, all openings on Combo V unit are $< \varnothing 0.8\text{mm}$ to keep out dirt
- Environmentally Tolerant
- Built-in intelligent Battery Charging System up to 120 A continuous charging current
- 5-Stage, intelligent charger (bulk, absorb, float, silent, manual EQ)
- Built-in 230VAC / 30A automatic AC-Transferswitch
- Programmable AUX output
- Programmable generator start (Relaiscontact)
- Smooth, true sinewave AC output
- Inverter/chargers can be stacked from 3000VA up to 30000 VA of continuous AC power
- 3-Phase configuration possible
- Remote control optional available
- All relevant parameters programmable and stored in a non volatile memory

Specifications (Specifications Subject to Change Without Notice)

Inverter / Charger Model		ComboS 2012-230/50 MIL	ComboS 2024-230/50 MIL	ComboS 2348-230/50 MIL	ComboV 3024-230/50 MIL	ComboV 3048-230/50 MIL	ComboRS 2024-230/50 MIL
Electrical Specifications Inverter							
Nominal DC-Input Voltage	VDC	12	24	48	24	48	24
DC-Input Range (adjustable low battery cut-out)	VDC	10.5 - 17	21 - 34	42 - 68	21 - 34	42 - 68	21 - 34
Nominal AC-Output	VAC / Hz	230 / 50 (120 / 60 Version available)					
Output Voltage Regulation	%	+/- 2					
Continuous Power Rating at 25° C	VA	2000	2000	2300	3000	3000	2000
Overload (from 25° C start) 30min	VA	2500	3100	3100	3300	3300	3100
Overload (from 25° C start) 5 sec	VA	4000	4800	4800	4800	4800	4800
Overload (from 25° C start) surge	VA	4600	5750	5750	5750	5750	5750
Continuous AC-Output	AAC RMS	8.7	8.7	10	13	13	8.7
Maximum Output Current	AAC Peak	28	35	35	35	35	35
Maximum Output Current	AAC RMS	20	25	25	25	25	25
Efficiency at 75% power & 25° C	%	> 90	92	93	92	93	92
Total Harmonic Distortion (typ/max)	%	2 / 5					
Idle Power (Sleep-<6VA)	VA	18 - 20	18 - 20	21 - 23	18 - 20	21 - 23	20
Electrical Specifications Charger							
AC-Input Voltage Range	VAC	160 - 300					
AC-Input Frequency Range	Hz	44 - 56					
AC-Input Current max (adjustable limits)	AAC	30					
Continuous Battery Charge Current (adjustable)	ADC	100	55	35	85	42	55
Charge Characteristics		5-stage (bulk, absorb, float, silent, manual EQ)					
Battery temperature compensation	VDC	0.1/°C					
Specifications Transferswitch							
Current capacity	AAC	30					
MIL Standards							
MIL STD 461E		X	X	X	X	X	X
Meets portions of MIL STD 810 and MIL STD 1275 D Wheeled & Tracked Profiles							X
Other Specifications							
Fan		Load and temperature controlled (internal fan on Combo S and Combo RS)					
Operating temperature range	°C	- 40 to +60 derating -20VA for each degree C° above 25° C ambient temperature					
Sealed		X	X	X			X
Conformal coating		X	X	X	X	X	X
Basic ruggedizing		X	X	X	X	X	
Full ruggedizing							X
Connecton DC		DC Clamps					
Connecton AC		Round connector output CA 3GD and input CA 3GS (custom version available on request)					
Dimensons (LxWxH)	cm	44 x 21 x 34			44 x 21 x 34		44 x 21 x 34
Shipping weight	Kg	34			33		35

Available from:



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The power conversion company

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