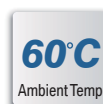
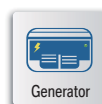


# CS series Inverter Charger Combination

12V 600W - 2.5KW  
24V 600W - 3KW  
48V 600W - 6KW

CS combi is an inverter/chargers combination with high reliability providing true sine-wave inverter, lead acid battery charger and AC transfer switch in together. It can be connected to either grid or generator to compose power system for the most demanding power backup application.



## Features

- Pure Sine Wave Inverter
- Designed for tropical region with working temperature up to 60 °C
- Weak grid mode makes it suitable for unstable grid
- Outstanding peak power makes it suitable for heavy load, such as air conditioner
- TBB premium II multi stage charging algorithm with built in automatic temperature compensation
- Various charging algorithms for multiple battery chemicals including AGM, GEL, Semi Traction and Traction.
- Equalization program available for Traction and Semi-traction battery
- Charger only function
- GEN mode makes it compatible with majority of generators in the market.
- Optional low voltage disconnect level

## RCC



- Load percentage
- Battery SOC
- Main switch
- System status

	12Vdc	CS0625L	CS1040L	CS1560L	CS2080L	CS2590L	
Model No.	24Vdc	CS0615M	CS1020M	CS1530M	CS2040M	CS3060M	
	48Vdc				CS2020S	CS3030S	CS6060S
Inverter							
Nominal Voltage		12Vdc, 24Vdc, 48Vdc					
Cont output power at 40°C (W)		600W	1000W	1500W	2000W	2500W/3000W	6000W
Cosφ		0.9-1					
Overload	>150%	20s					
	>125%	60s					
	>110%	15mins				1min	
Surge		300%					
Output voltage		230VAC or 110VAC ± 2%					
Output frequency		50Hz or 60Hz ± 0.1%					
Efficiency		88% / 88% / 92%					
Crest factor		3:1					
THD		<3%					
Zero load power		17	22	27	36	72	123
Zero load power (power save mode)		4	5	7	9	18	30
Output circuit breaker		5A	10A	10A	15A	30A	30A
Overload and overheat protection		auto disconnect with 3 times restart attempt					
shortcut protection		auto disconnect					
Charger							
Nominal Output Voltage		12Vdc, 24Vdc, 48Vdc					
Max Output current (A) - adjustable		25/15	40/20	60/30	80/40/20	90/60/30	60
AC Input range	UPS mode	200VAC - 250VAC, 45-65Hz					
Battery types		AGM / GEL / Semi Traction / Traction					
Absorbtion time		variable					
Temperature compensation		- 4mV/°C/cell					
Charger circuit breaker		5A	10A	15A	15A	30A	30A
Other Data							
Transfer time	GEN mode	2s					
	UPS mode	15ms					
Transfer switch		40A					
Battery connector		M8 x 2					
AC connector		M3 terminal block					
Mechanical Data							
Enclosure		Steel with powder paint					
Dimension (mm)		400x190x135		460x220x180			630x220x180
Net Weight (kgs)		9.5	12	16	18.5	22.5	42
Cooling		Forced fan					
Protection		IP21					
Standard							
Safety EMC		EN60950-1 EN55022					