

The Ultimate Interactive DC to AC Pure Sine Wave Inverter/Charger Power Management Control System Idealy Designed for Home, Boat, Caravan or RV



Features

- Combi-functional just like all what Combi-3 has with intelligent shore and generator power management
- Uninterrupted AC power (UPS function)
- Virtually unlimited power thanks to parallel operation
- Three phase capability
- PowerControl Dealing with limited generator, shore side or grid power to avoid sudden loads on generator causing voltage spikes
- **PowerSupport** Boosting the capacity of shore or generator power, an innovative feature of the CombiPlus
- Communication with max. 10 sets of solar chargers (SunStar Series)
- Four preset control mode application with AC grid, AC charging and solar charging
- Mode 1 takes the AC mains input power to supply to the load or charge the batteries
- Mode 2 incorporates the "maximum AC input current limit" to protect against unwanted power tripping from the mains supply of the backup generator
- Mode 3 and Mode 4 are "Green Power Smart Feature" and designed to conserve energy by using the solar power to recharge the batteries. The difference between mode 3 and mode 4 is that the AC charger in the CombiPlus is always off in mode 3
- Wall Mount and Table Mount available for choices
- Optional remote panel with LCD display for easy operation in distance













Specifications

Model 12 Volt System 24 Volt System No. 48 Volt System	CP-1500-12X ₍₁₎ CP-1500-24X CP-1500-48X	CP-3000-12X(1) CP-3000-24X CP-3000-48X	CP-6000-24X ₍₁₎ CP-6000-48X	CHAI
GENERAL	01 1000 40X	01 0000 40X		Input Fred
And the state of t	Forced cooling			Power Fac
Ventilation — Operation	Forced cooling - 20°C ~ + 70°C			
Temperature - Operation - Storage	- 20°C ~ + 70°C - 25°C ~ + 80°C			Charge Ch
Protection				Maximum D
a. Output short circuit	V			(Vrms)
b. Over load	V			Charge Cur
c. Battery voltage too high	V			Charge Cur
d. Battery voltage too low	V			Output Ch
e. DC voltage ripple too high f. Temperature Sensor	V			
•	X (40500)			
Transformer Electronic & Powerstage	(105°C)			Absorption (VDC)
Battery Temp BTS-3		(70°C)		Float Volta
Humidity	0~	(50°C) 0∼95% (non condensing)		(VDC)
Power Control Function		V (Holl condense		Equalize Vo
Power Shifting Function	V		(VDC)	
Uninterrupted AC Power	(Less than 10 msec)			Output Cha (min~max)
Adaptive 4-stage Charge	V			Battery Ter
Two output to charge 2 battery banks	٧			ACIN
Auxiliary Relay	X 3			AC IN Tern
Parallel Operation (Requires optional CP-PX)	(Max. 5 sets)			AC IN Auto Switch Cu
3-phase Capacity (Requires optional CP-3PX)	V			Switch-ov
Battery Voltage Sensor	V			a, in
Battery Temperature Sensor (BTS-3 Optional)	V			b. A
Remote Control Port	V		Detection 7	
Extension Port (Port C)	V		MECI	
INVERTER		-		Cabinet / Pro
Input Voltage Range	12V-(9.5 -16V) 24V-(19-32V) 48V-(38-64V)		24V-(19-32V) 48V-(38-64V)	Dimension
(VDC)				Weight (kg
Output Voltage (VAC)	210 ~ 245 V / 94 ~ 128 V		210 ~ 245 V	OPTI
Output Frequency	50Hz / 60Hz \pm 0.1%			
Output Waveform	True Pure Sinewave		Solar Cha (SunStar	
Output Voltage THD	< 5%		Remote C	
Power Factor (All Loads)	V		(RCP-4)	
No linger load, crest factor		3:1		Dette m. Te
Cont. Power Output @ 70°C (W) Under 70°C (cos 6= 1.0)	1500Watt (No derate 70°C)	3000Watt (No derate 70°C)	6000Watt (No derate 70°C)	Battery Te (BTS-3)
Cont. Power Output (W) Over 70°C (cos θ=1.0)	0W (Shutdown)		PC Progra (PPU-CP)	
Maximum Power (w)	3000W 6000W 12000W		Parallel E	
Maximum Efficiency (%)	82 / 84 / 85	84 / 86 / 89	88 / 89	(CP-PX)
Zero-load Power (w)	(8W Power Save) 12W (Normal)	(12W Power Save) 18W (Normal)	(18W Power Save) 36W (Normal)	2-/3-Phas (CP-3PX)

CHARGER				
Input Voltage Range (VAC)	180 ~ 265 VAC	/ 94 ~ 138 VAC	180 ~ 265 VAC	
Input Frequency	45 - 55 Hz / 55 - 65 Hz			
Power Factor	1			
Charge Characteristic	4-stage adaptive Bulk-Absorption-Float-Equalize + Safe			
Maximum DC Voltage Ripple (Vrms)	< 1.25V			
Charge Current House Battery (A)	70A / 40A / 20A	140A / 70A / 40A	140A / 70A	
Charge Current Starter Battery (A)				
Output Charging Voltage (VDC)	12V~16V / 24V~32V / 48V~64V		24V ~ 32V 48V ~ 64V	
Absorption Voltage Default (VDC)	14.4V / 28.8V / 57.6V		28.8V 57.6V	
Float Voltage Default (VDC)	13.8V / 27.6V / 55.2V		27.6V 55.2V	
Equalize Voltage Default (VDC)	13.2V / 26.4V / 52.8V		26.4V 52.8V	
Output Charge Voltage (min~max)	8V~16V / 11V~32V / 22V~64V		11V ~ 32V 22V ~ 64V	
Battery Temperature Sensor	BTS-3 (optional)			
AC INPUT SWI	тсн			
AC IN Terminal Circuit Breaker	30A (110V) 15A (220V)	60A (110V) 30A (220V)	60A (220V)	
AC IN Auto Transfer Switch Current	32A (110V) 16A (220V)	63A (110V) 32A (220V)	64A (220V)	
Switch-over Time				
a. inverter to AC input	0 msec			
b. AC input to inverter	0 msec			
Detection Time AC Input Fault	4 ~ 10 msec			
MECHANICAL				
Cabinet / Protecting Class	Aluminum/IP20			
Dimension (H × W × D) mm	362 x 258 x 370	424 x 258 x 370	500 x 290 x 400	
Weight (kgs)	21	27	44	
OPTIONS				
Solar Charger: (SunStar Series)	SS-45C/SS-60C(Max.10)			
Remote Controller (RCP-4)	Remote monitoring available, optional cables:3M/15M			
Battery Temperature Sensor (BTS-3)	Compensation for the battery charging voltage and current			
PC Programming Unit	Programming and monitoring the values displayed in PC			
Parallel Box Package (CP-PX)	Stackable power (Max. 5 sets for parallel connection)			
2-/3-Phase Box Package	2-Phase or 3-Phase output			

** (1) X should be 1, output voltage = 94 ~128 VAC or 2, output voltage = 210 ~ 245 VAC











