

CX Series Advanced Battery Charger

- * Small dimension
- * Simple interface
- * Smart communication
- * Silent operation
- * Special battery maintenance



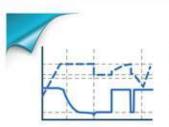


User Benefits



ESB maintenance function

Keep ESB (Engine Start Battery) in good condition



User programmable charging curve

Provide flexibility for various battery types



Temperature compensation

Extend batteries' life and reduce life cycle cost



-20~50°C operation temperature

Operate under tough conditions



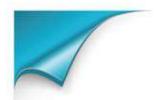
Sleep mode

Keep charging in silent during sleep

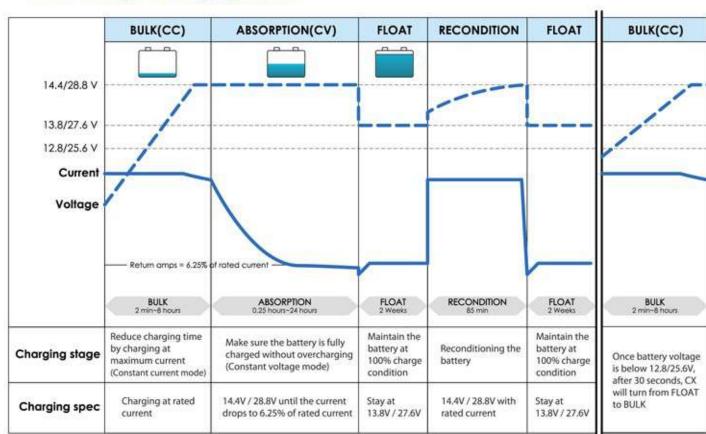


Failure alarm by dry contact

Recognize abnormal symptoms easier



Three-stage Charging Curve



CE

1711	Model	CX1215	CX1225	CX1235	CX1250	CX1280		
Property of	Battery Type Lead Acid / Li-ion / Gel /AGM							
ATTENNE !	Standard Boost Charger Voltage	14.4V / 14.7V (Select by switch)						
Output	Standard Float Charger Voltage	13.8V / 13.5V (Select by switch)						
	Main Rated Current	15A	25A	35A	50A	80A		
	Current Range	0~15A	0~25A	0~35A	0~50A	0~80A		
	Main Output	1	2	2	3	3		
	ESB Output	1	1	1				
	ESB Output Voltage/Current	13.8V / 2A	13.8V / 2A	13.8V / 2A	-			
	Battery Charging Mode	3 stage charging capability						
	Single Output Current Limit	15A 25A 35A 40A 40A						
Input	Voltage Range	90 ~ 264VAC						
	Power Factor (Typ.)	PF > 0.92 at full load						
	Frequency Range	47 ~ 63Hz						
	Efficiency (Typ.) at 230 Vac	87%	87%	87%	87%	87%		
	AC Current (Typ.)	2.5A / 100VAC	4.1A / 100VAC	6.2A / 100VAC	8.24A / 100VAC	13.3A / 100VA		
		1.07A / 240VAC	1.8A / 240VAC	2.8A / 240VAC	3.6A / 240VAC	5.4A / 240VA		
	Leakage Current	For earth < 1mA / 240VAC						
	Short Circuit	Current limit < 1A (30 seconds)						
	Over Voltage	17.5V ± 1%, Protection type: Shutdown output (recovery after resetting AC power on)						
Protection	Over Temperature	Charger Over Temperature 100 ± 5°C detected by heat sink						
		Battery Over Temperature 52 \pm 5°C (Optional device - COTEK temperature sensor), connect on CN3						
	100	Protection type: Auto recovery after heat sink temperature goes down to 50°C						
	Alarm Signal	N.C. / N.O. Relay contact output						
	Power Mode	Supply 13.2V Current limit output voltage						
Function	Temperature Compensation	-10mV / 0.5°C with COTEK temperature sensor						
	Charging Sleep Mode Note.1	By remote controller and S1-4 DIP switch						
	Remote Controller (Optional)	CR-1						
	Working Temp.	-20°C ~ -50°C (refer to output load de-rating curve)						
	Working Humidity	20 ~ 90% RH non-condensing						
Environment	Storage Temp., Humidity	-40°C ~ +85°C, 20 ~ 90% RH						
	Temp. Coefficient	± 0.03% (0°C ~ 50°C)						
	Vibration	10 ~ 500Hz, 2G 10min. / 1cycle period for 60min. each along X, Y, Z axes						
Safety & EMC Note 2	Safety Standards	Certified EN 60335-1, EN 60335-2-29						
	Withstand Voltage	I/P - O/P: 4242VDC, I/P - FG: 1768VDC, O/P - FG: 700VDC						
	Isolation Resistance	I/P - O/P: 100M Ohms/500VDC						
	EMI Conduction & Radiation	Certified EN 55022; EN 61204-3; EN 55014-1						
	Harmonic Current	Certified EN 61000-3-2, -3-3; EN 61204-3; EN 61000-6-3						
	EMS Immunity	Certified EN 55024; IEC 61000-4-2, 3, 4, 5, 6, 8, 11; ENV 50204; EN 61000-6-1; EN 55014-2						
Other	Dimension (WxHxD)	183x72x243 mm	183x72x243 mm	183x72x263 mm	213x77x272 mm	213x77x272 mm		
Information	Net Weight	1.6kg	1.7kg	1.9kg	3.1kg	4.0kg		
Note	2. The charger is considered a com	When use sleep mode, please refer to charging current v.s. heat sink temperature de-rating curve. The charger is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that still meets EMC directives.						

Marin	Model	CX2415	CX2425	CX2440			
Output	Battery Type	Lead Acid / Li-ion / Gel /AGM					
	Standard Boost Charger Voltage	28.8V / 29.4V (Select by switch)					
	Standard Float Charger Voltage	27.6V / 27V (Select by switch)					
	Main Rated Current	12.5A 25A		40A			
	Current Range	0~12.5A	0~25A	0~40A			
	Main Output	2	3	3			
	Battery Charging Mode	3 stage charging capability					
	Single Output Current Limit	12.5A	25A	40A			
Input	Voltage Range	90 ~ 264VAC					
	Power Factor (Typ.)	PF > 0.92 at full load					
	Frequency Range	47 ~ 63Hz					
	Efficiency (Typ.) at 230 Vac	90% 90%		90%			
	5003/10	4.2A / 100VAC	8.3A / 100VAC	13.3A / 100VAC			
	AC Current (Typ.)	1.7A / 240VAC	3.6A / 240VAC	5.4A / 240VAC			
	Leakage Current	For earth < 1mA / 240VAC					
Protection	Short Circuit	Current limit < 1A (30 seconds)					
	Over Voltage	35V ± 1%, Protection type: Shutdown output (recovery after resetting AC power on)					
	Over Temperature	Charger Over Temperature 100 ± 5°C detected by heat sink					
		Battery Over Temperature 52 \pm 5°C (Optional device - COTEK temperature sensor), connect on CN3					
		Protection type: Auto recovery after heat sink temperature goes down to 50°C					
Function	Alarm Signal	N.C. / N.O. Relay contact output					
	Power Mode	Supply 26.4V Current limit output voltage					
	Temperature Compensation	-10mV / 0.5°C with COTEK temperature sensor					
	Charging Sleep Mode Note.1	By remote controller and S1-4 DIP switch					
	Remote Controller (Optional)	Support COTEK Remote Controller CR-1 setting Function (CN3 or CN4)					
	Working Temp.	-20°C ~ -50°C (refer to output load de-rating curve)					
Environment	Working Humidity	20 ~ 90% RH non-condensing					
Environment	Storage Temp., Humidity	-40°C ~ +75°C, 20 ~ 90% RH					
	Temp. Coefficient	± 0.03% (0°C ~ 50°C)					
	Vibration	10 ~ 500Hz, 2G 10min. / 1cycle period for 60min. each along X, Y, Z axes					
Safety & EMC Note.2	Safety Standards	Certified EN 60335-1, EN 60335-2-29					
	Withstand Voltage	I/P - O/P: 4242VDC, I/P - FG: 1768VDC, O/P - FG: 700VDC					
	Isolation Resistance	I/P - O/P: 100M Ohms/500VDC					
	EMI Conduction & Radiation	Certified EN 55022; EN61204-3; EN 55014-1					
	Harmonic Current	Certified EN 61000-3-2, -3-3; EN 61204-3; EN 61000-6-3					
	EMS Immunity	Certified EN 55024; IEC 61000-4-2, 3, 4, 5, 6, 8, 11; ENV 50204; EN 61000-6-1; EN 55014					
Other Information	Dimension (WxHxD)	183x72x243 mm	213x77x272 mm	213x77x312 mm			
	Net Weight	1.6kg	2.9kg	3.9kg			
Note	1. When use sleep mode, please refer to charging current v.s. heat sink temperature de-rating curve. 2. The charger is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that still meets EMC directives.						



Dimension

CX1215

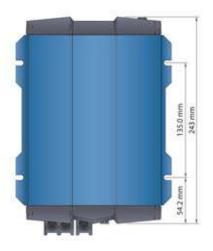


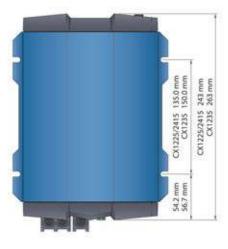
CX1250/1280 CX2425/2440



















About COTEK



COTEK is committed to providing proactive service, innovative technology and total quality assurance since we were established in 1986. With Corporate Offices in Tao-yuan, Taiwan, COTEK is a technology-oriented company focusing on developing, designing and manufacturing products including:

- DC/AC Pure Sine Wave inverter-150 Watts ~ 4,000 Watts
- Inverter/Charger
- Battery Charger
- AC/DC Switching Mode Power Supply-5 Watts ~ 3,000 Watts
- LED Driver

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