

COTEK

compact and powerful...



CX Series Advanced Battery Charger

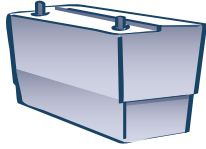
- ★ Small dimension
- ★ Simple interface
- ★ Smart communication
- ★ Silent operation
- ★ Special battery maintenance





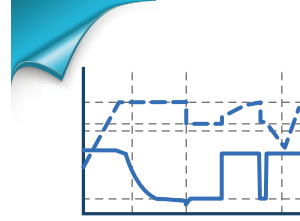
Extend
your enjoyable time!

User Benefits



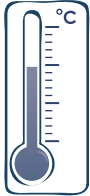
ESB maintenance function

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

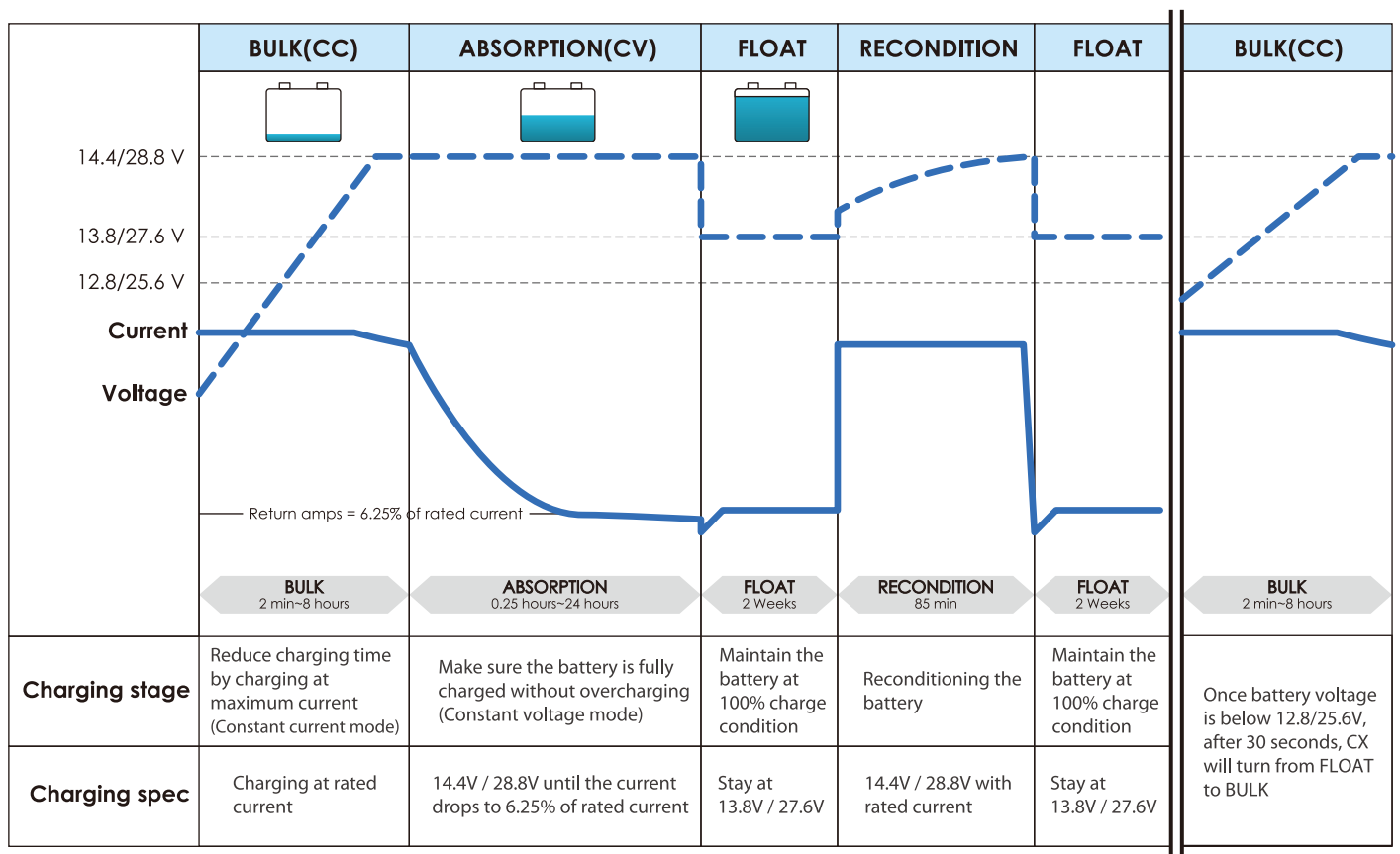
Keep charging in silent during sleep



Failure alarm by dry contact

Recognize abnormal symptoms easier

Three-stage Charging Curve



CX 12



Model		CX1215	CX1225	CX1235	CX1250	CX1280
Output	Battery Type	Lead Acid / Li-ion / Gel / AGM				
	Standard Boost Charger Voltage	14.4V / 14.7V (Select by S1-1)				
	Standard Float Charger Voltage	13.8V / 13.5V (Select by S1-2)				
	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 (IUoU)				
	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 / 100VAC
		1.07A / 240VAC	1.8A / 240VAC	2.8A / 240VAC	3.6A / 240VAC	5.4A / 240VAC
	Leakage Current	For earth < 1mA / 240VAC				
Protection	Short Circuit	Current is reduced to < 1A continued 30sec., fan will operate 30 seconds then turn off				
	Over Voltage	17.5V ± 1%, Protection type: Shut down output (recovery after resetting AC power on)				
	Over Temperature	Charger Over Temperature 100 ± 5°C detected by heat sink				
		Battery Over Temperature 52 ± 5°C (Optional device - COTEK temperature sensor), connect on CN3				
Function	Alarm Signal	N.C. / N.O. Relay contact output				
	Power Mode	Supply 13.2V Current limit output voltage				
	Temperature Compensation	-10mV / 0.5°C with COTEK temperature sensor				
	Charging Sleep Mode <small>Note.1</small>	By remote controller and S1-4 DIP switch				
	Remote Controller <small>Note.2</small>	Support COTEK Remote Controller CR-1 setting Function (CN3 or CN4)				
Environment	Working Temp.	-20°C ~ -50°C (refer to output load de-rating curve)				
	Working Humidity	20 ~ 90% RH non-condensing				
	Storage Temp., Humidity	-40°C ~ +85°C, 20 ~ 90% RH				
	Temp. Coefficient	± 0.03% (0°C ~ 50°C)				
	Vibration	10 ~ 500Hz, 2G 10min. / 1 cycle period for 60min. each along X, Y, Z axes				
Safety & EMC <small>Note.3</small>	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	EN 55022; EN55024; EN61204-3; EN 55014-1; EN55014-2				
	Harmonic Current	EN 61000-3-2; EN 61000-3-3; EN61204-3; EN61000-6-1; EN61000-6-3				
	EMS Immunity	EN 61000-4-2, 3, 4, 5, 6, 8, 11; ENV 50204				
Other Information	Dimension (WxHxD)	183x72x243 mm	183x72x243 mm	183x72x263 mm	213x77x272 mm	213x77x272 mm
	Packing	1.6kg	1.7kg	1.9kg	3.1kg	4.0kg
Note	1. When use sleep mode, please refer to charging current v.s. heat sink temperature de-rating curve. 2. Optional Remote Controller (CR-1). 3. 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.					

CX 24

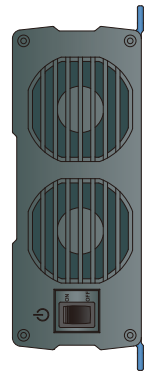
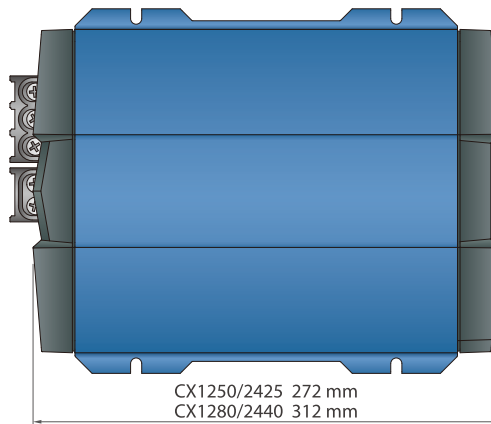
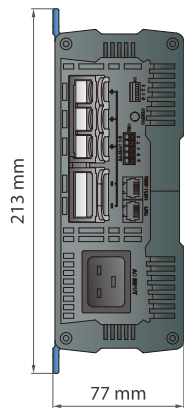
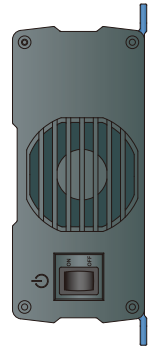
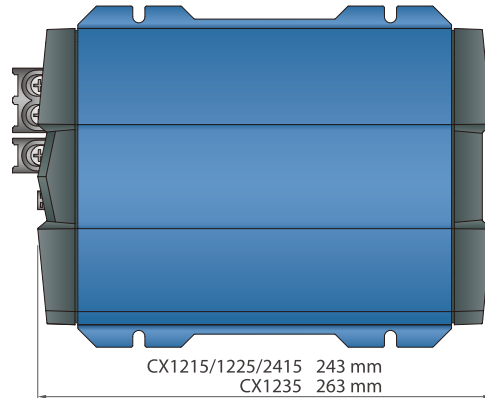
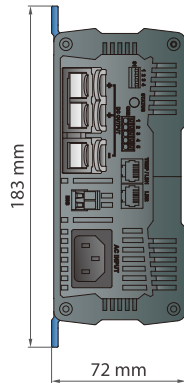


Model		CX2415	CX2425	CX2440
Output	Battery Type	Lead Acid / Li-ion / Gel / AGM		
	Standard Boost Charger Voltage	28.8V / 29.4V (Select by S1-1)		
	Standard Float Charger Voltage	27.6V / 27V (Select by S1-2)		
	Main Rated Current	12.5A	25A	40A
	Current Range	0~12.5A	0~25A	0~40A
	Main Output	2	3	3
	Battery Charging Mode	3 - stage charging capability (IUoU)		
	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%
	AC Current (Typ.)	4.2A / 100VAC	8.3A / 100VAC	13.3A / 100VAC
		1.7A / 240VAC	3.6A / 240VAC	5.4A / 240VAC
	Leakage Current	For earth < 1mA / 240VAC		
Protection	Short Circuit	Current is reduced to < 1A continued 30sec., fan will operate 30 seconds then turn off		
	Over Voltage	35V ± 1%, Protection type: Shut down output (recovery after resetting AC power on)		
	Over Temperature	Charger Over Temperature 100 ± 5°C detected by heat sink		
		Battery Over Temperature 52 ± 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 <small>Note.1</small>	By remote controller and S1-4 DIP switch		
	Remote Controller <small>Note.2</small>	Support COTEK Remote Controller CR-1 setting Function (CN3 or CN4)		
Environment	Working Temp.	-20°C ~ -50°C (refer to output load de-rating curve)		
	Working Humidity	20 ~ 90% RH non-condensing		
	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 <small>Note.3</small>	Safety Standards	Certified EN 60335-1, EN 60335-2-29		
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	Isolation Resistance	I/P - O/P: 100M Ohms/500VDC		
	EMI Conduction & Radiation	EN 55022; EN 55024; EN 61204-3; EN 55014-1; EN 55014-2		
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	EMS Immunity	EN 61000-4-2, 3, 4, 5, 6, 8, 11; ENV 50204		
Other Information	Dimension (WxHxD)	183x72x243 mm	213x77x272 mm	213x77x312 mm
	Packing	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. Optional Remote Controller (CR-1). 3. 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

CX Series



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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