

Intelligent Standalone Battery Charger - CX series

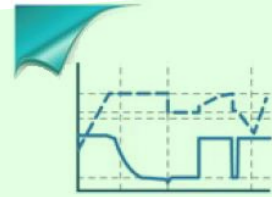
Model : 24VDC ➔ CX2440 / CX2425 / CX2415
 12VDC ➔ CX1280 / CX1250 / CX1235 / CX1225 / CX1215

AC Input : 90 V ~ 264 V

DC Output : 24VDC ➔ Boost : 28.8V / 29.4V ; Float : 27.6V / 27.0V (Selected)
 12VDC ➔ Boost : 14.4V / 14.7V ; Float : 13.8V / 13.5V (Selected)

■ Features:

- Universal AC input with active PFC.
- Compatible with Lead Acid, Li-ion, and AGM batteries.
- Support optional remote controller (CR-1)
- High efficiency and high reliability.
- Built-in battery rescue function.
- Built-in Engine Start Battery (ESB) output function.
- Dry contact for alarm.
- 2-stage fan speed control.
- Withstand 2G vibration test.
- RS-232 communication Interface, CT-20L (optional).
- Voltage/ temperature compensation with battery temp. sensor (optional).



User Programmable Charging Curve
 Provide flexibility for various battery types



Temperature Compensation
 Extend batteries life & reduce life cycle cost



Optional:



CT-20L
Interface Card



CR-1
Remote Controller



Temperature Sensor



CX2415

CX2425

CX2440

Model	CX1215	CX1225	CX1235	CX1250	CX1280
Battery Type	Lead Acid / Li-ion / Gel / AGM				
Standard Boost Charger Voltage	14.4V / 14.7V (select by DIP switch)				
Standard Float Charger Voltage	13.8V / 13.5V (select by DIP switch)				
Main Rated Current	15A	25A	35A	50A	8A
Current Range	0 ~ 15A	0 ~ 25A	0 ~ 35A	0 ~ 50A	0 ~ 80A
Main Output Quantity	1	2	2	3	3
ESB Output Quantity	1	1	1	---	---
ESB Output Voltage/Current	13.8V / 2A	13.8 / 2A	13.8V / 2A	---	---
Battery Charging Mode	3 stage charging capability				
Single Output Current Limit	15A	25A	35A	50A	80A
Input Voltage Range	90 ~ 264 VAC (refer to de-rating curve)				
Power Factor (Typ.)	PF > 0.92 at full load				
Frequency Range	47 ~ 63 Hz				
Efficiency (Typ.) at 230Vac	87%	87%	87%	87%	87%
AC Current (Typ.)	2.5A / 100Vac 1.07A / 240Vac	4.1A / 100Vac 1.8A / 240Vac	8.2A / 100Vac 2.8A / 240Vac	8.24A / 100Vac 3.8A / 240Vac	13.3A / 100Vac 6.4A / 240Vac
Leakage Circuit	For earth < 1mA / 240Vac				
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 > Temperature 52±5°C (Optional device – temp. sensor), connect on CN3				
	Protection type : Auto recovery after heat sink temperature goes down to 50°C				
Alarm Signal	NC/NO Relay Contact Output (Pls. refer to page 5 Alarms Signal & Fan Control)				
Power Mode	Supply 13.2V Current limit output voltage				
Temperature Compensation	-10mV / 0.5°C with temperature sensor				
Charging Sleep Mode	By Remote Controller and S1 – 4 DIP switch (Pls. refer to page 4-5)				
Remote Controller	Support Remote Controller CR-1 setting Function (CN3 or CN4)				
Operating Temp. & Humidity	-20 ~ +60 °C (refer to de-rating curve) / 20~90% RH (non-condensing)				
Storage Temp & Humidity	-40 ~ +85 °C , 20~90% RH (non-condensing)				
Temp. Coefficient	±0.03% (0 ~ 50°C)				
Vibration	10 ~ 500Hz, 2G 10min. / 1 cycle period for 60min each along X, Y, Z axes				
Safety Standards	Certificated EN 60335-1 , EN 60335-2-29				
Withstand Voltage	I/P – O/P: 4242VDC , I/P – FP: 1768VDC , O/P – FG: 700VDC				
Isolation Resistance	I/P – O/P: 100M Ohms / 500VDC				
EMC Standards	Certificated EN55022 ; EN55024 ; EN61204-3 , EN55014-1 Certificated EN61000-3-2, -3-3; EN61204-3 ; EN61000-3 Certificated EN55024; EN61000-4-2, 3,4,5,6,8,11; ENV 50204; EN61000-6-1; EN55014				
Dimension (WxHxD),mm	183x72x243	183x72x243	183x72x263	213x77x272	213x77x312
Weight, Kg	1.6 Kg	1.7 Kg	1.9 Kg	3.1 Kg	4.0 Kg

Model	CX2415	CX2425	CX2440
Battery Type	Lead Acid / Li-ion / Gel / AGM		
Standard Boost Charger Voltage	28.8V / 29.4V (select by DIP switch)		
Standard Float Charger Voltage	27.6V / 27.0V (select by DIP switch)		
Main Rated Current	12.5A	25A	40A
Current Range	0 ~ 12.5A	0 ~ 25A	0 ~ 40A
Main Output Quantity	2	3	3
Battery Charging Mode	3 stage charging capability		
Single Output Current Limit	12.5A	25A	40A
Input Voltage Range	90 ~ 264 VAC (refer to de-rating curve)		
Power Factor (Typ.)	PF > 0.92 at full load		
Frequency Range	47 ~ 63 Hz		
Efficiency (Typ.) at 230Vac	90%	90%	90%
AC Current (Typ.)	4.2A / 100Vac 1.7A / 240Vac	8.3A / 100Vac 3.6A / 240Vac	13.3A / 100Vac 6.4A / 240Vac
Leakage Circuit	For earth < 1mA / 240Vac		
Short Circuit	Current is reduced to <1A continued 30sec., fan will operate 30 seconds then turn off		
Over Voltage	36V±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 > Temperature 52±5°C (Optional device – temp. sensor), connect on CN3		
	Protection type : Auto recovery after heat sink temperature goes down to 50°C		
Alarm Signal	NC/NO Relay Contact Output (Pls. refer to page 5 Alarms Signal & Fan Control)		
Power Mode	Supply 26.4V Current limit output voltage		
Temperature Compensation	-10mV / 0.5°C with temperature sensor		
Charging Sleep Mode	By Remote Controller and S1 – 4 DIP switch (Pls. refer to page 4-5)		
Remote Controller	Support Remote Controller CR-1 setting Function (CN3 or CN4)		
Operating Temp. & Humidity	-20 ~ +60 °C (refer to de-rating curve) / 20~90% RH (non-condensing)		
Storage Temp & Humidity	-40 ~ +75 °C , 20~90% RH (non-condensing)		
Temp. Coefficient	±0.03% (0 ~ 50°C)		
Vibration	10 ~ 500Hz, 2G 10min. / 1 cycle period for 60min each along X, Y, Z axes		
Safety Standards	Certificated EN 60335-1 , EN 60335-2-29		
Withstand Voltage	I/P – O/P: 4242VDC , I/P – FP: 1768VDC , O/P – FG: 700VDC		
Isolation Resistance	I/P – O/P: 100M Ohms / 500VDC		
EMC Standards	Certificated EN55022 ; EN55024 ; EN61204-3 , EN55014-1 Certificated EN61000-3-2, -3-3; EN61204-3 ; EN61000-3 Certificated EN55024; EN61000-4-2, 3,4,5,6,8,11; ENV 50204; EN61000-6-1; EN55014		
Dimension (WxHxD),mm	183x72x243	213x77x272	213x77x312
Weight, Kg	1.6 Kg	2.9 Kg	3.9 Kg