

Features:

- Universal AC input with active PFC
- Adjustable charging voltage & time setting capability for each charging stage
- Compatible with lead acid, Li-ion, Gel and AGM batteries
- RS232 communication interface
- Voltage / temperature compensation
- 2 stage fan speed control
- Output power OK signal
- High efficiency and high reliability
- Built-in battery rescue function
- Built-in Engine Start Battery (ESB) output function
- Protection Short Circuit / Over Voltage / Over Temperature / Brown-out Protection
- Withstand 2G vibration test



MODEL		CX2415	CX2425	CX2440
Output	Battery Type	Lead Acid / Li-ion / Gel / AGM		
	Boost Charge Voltage	28.8V / 29.4V		
	Float Charge Voltage	27.6V		
	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 230Vac	90%	90%	90%
	AC Current (Typ.)	4.2A / 100VAC 1.7A / 240VAC	8.3A / 100VAC 3.6A / 240VAC	13.3A / 100VAC 5.4A / 240VAC
Leakage Current	For earth < 1mA / 240VAC			
Protection	Short Circuit	Current is reduced to < 1A continued 30sec. , will operate 30 seconds then turn off		
	Over Voltage	35V ±1% Protection type: Shut down output (recovery after resetting AC power on)		
	Over Temperature	100 ±5°C detected by heat sink Protection type: Shut down output (Auto recovery after heat sink temperature goes down to 50 °C)		
	Battery Over Temperature	52 ±5°C (Optional device - COTEK temperature sensor)		
Function	Alarm Signal	NC. / NO. Relay contact output		
	Communication	RS232 communication protocol		
	Temperature Compensation	-20mV / 0.5°C provided by Optional device - COTEK temperature sensor		
	Charging Sleep Mode	Note.4 By remote control and DIP switch (low noise mode)		
	Remote Control	3 colour LED and botton for ON / OFF and sleep mode control		
Environment	Working Temp.	-20 ~ 50°C (refer to output load de-rating curve)		
	Working Humidity	20 ~ 90% RH non-condensing		
	Storage Temp., Humidity	-40 ~ +85°C, 20 ~ 90% RH		
	Temp. Coefficient	±0.03% (0 ~ 50°C)		
	Vibration	10 ~ 500Hz, 2G 10min. / 1cycle period for 60min. each along X, Y, Z axes		
Safety & EMC	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		
	Harmonic Current	EN 61000-3-2; EN 61000-3-3		
	Note.2 EMS Immunity	EN 61000-4-2, 3, 4, 5, 6, 8, 11; ENV 50204		
Others	MTBF (Compliance: MIL-HDBK-217F)	xxxK HRS	xxxK HRS	xxxK HRS
	Dimension (WxHxD)	183x72x243.4mm	213x76.5x272.4mm	213x76.5x312.4mm
	Packing	1.6kg	2.9kg	3.9kg
Note	1. All parameters not specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. The charger is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 3. Before charging, make sure the battery charger and battery specifications are compatible. 4. When use sleep mode, please refer to charging current v.s. heat sink temperature de-rating curve.			

Charging Curve:

