COTEK

COTEK ELECTRONIC IND. CO., LTD

COTEK

Professional Power Solutions Design
and Manufacturing

Switching Mode Power Supply

Always Power Ready

COTEK ELECTRONIC IND. CO., LTD

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No.33, Sec. 2, Renhe Rd., Daxi Dist.,
Taoyuan City 33548, Taiwan

2022/2023 Product Catalog

COTEK

Professional Power Solutions Design and Manufacturing

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

1. DC / AC Pure Sine Wave Inverter
2. Inverter / Charger
3. Battery Charger
4. Programmable AC / DC Switching Mode Power Supply

Why COTEK

One-stop shopping

Diverse power product lines that fulfill our business partner's power requirement across multiple sectors (AC/DC, DC/AC, Chargers and Inverter Chargers)

World-Class R&D Team

30 years' software & hardware development capability

Product Safety Approvals

Meet the global latest safety standards

Flexibility

To provide off-the-shelf and customized design service

Prompt Service

Authorized distributor partners in over 38 countries to ensure local services in the same time zone

Production Experience

Sold more than 20 million pcs to the worldwide market

2018 2019 2020 2021

D&B Top 1000 Elite SME Award

D-U-N-S Number : 65-728-6662

COTEK Headquarters, Taiwan

No. 33, Sec. 2, Renhe Rd., Daxi Dist., Taoyuan City 33548, Taiwan

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http://www.cotek.com.tw/

COTEK Factory, Dongguan China

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Product Index

General / Industrial

Photo	Type	Output	Series	Main Features	DC Output	Power Rating (Wattages) 500	650	800	1000	1500	3000	Page
	Enclosed	Single	**AD**	▪ Programmable output voltage / current up to 105% ▪ Forced current sharing at parallel operation ▪ Constant current limit ▪ I²C, PMBus (Meet), UART and MODBUS communication protocol ▪ Aux output 5V/1A ▪ Built-in ORing FETs ▪ Support parallel operation via CAN Bus ▪ Intelligent GUI available at request	LV	○		○		●		P.7
					HV					○		
			**AE**	▪ Programmable output voltage / current (0~105%) ▪ Constant current limit ▪ Global control via RS-232 ▪ Multiple remote settings via RS-232, I²C and RS485 ▪ Auxiliary output 5V/0.5A or 9V/0.3A ▪ Remote ON/OFF ▪ Force current sharing at parallel operation ▪ GUI available at request	LV			○●		●●	●	P.9
			**AEK**		LV						○●	P.11
					HV						●●	
			**AK**	▪ Programmable output voltage (30~105%) & current (40~105%) ▪ Remote ON/OFF ▪ Force current sharing at parallel operation	LV		●		●			P.13

▪ Model Naming Rule : AD-1500-XX (① ② ③)

① Product Series
② Wattage
③ Output voltage
LV : 12 / 15 / 24 / 30 / 36 / 48 /60 VDC
HV : 120 / 150 / 200 / 250 / 300 / 400 VDC

● = Standard Version (Available to order)
●● = ORing Version (Available to order)
○ = Coming Soon

Accessories

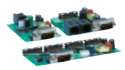
Photo	Model Name	Description	Applicable Series
	CT-201/204/ 251/551	RS-232/485 Interface card	▪ For AE, AEK Series
	CT-211	Charger board	▪ For AE, AEK-3000-LV Series

Photo	Model Name	Description	Applicable Series
	AD - COMM - C11 / A23 / A24	Communication Interface card	▪ For AD Series

Note: For the Accessories detail spec., please contact Sales if required.

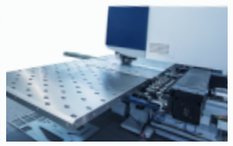
Applications

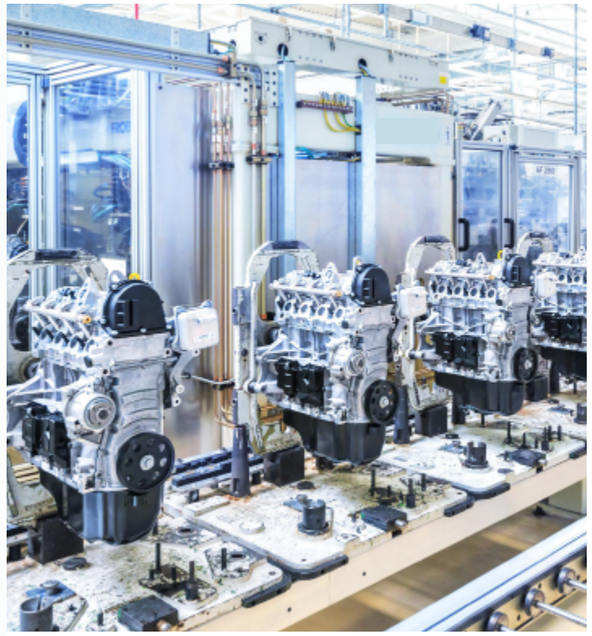
Industrial

Process Control
Burn-in
Test & Measurement
Laser-Carving
Factory Automation
Digital Signage/Display
Industrial Robotics
Aerospace grounding power
Lighting

Why Cotek:

- Universal Input
- Wide programmable range
- PCBA conformal coating as default





Charging

EBUS/EV Charging
Warehouse automation
Smart Retail (Robotic)

Why Cotek:

- Constant current limit
- Wide programmable range
- Remote communication & setting
- Parallel Connection
- CT-211 (optional charger board) to set CC, CV and floating curve for charger applications

Ethernet
(Coming Soon)

Industrial automation
Gas and Oil Refineries
Pipelines
Simulators
Air Traffic Control
Financial Services
Satellite Communications
Mission Critical Application
CCTV

Conveyor

Conveyor Systems (Sortation, Crossbelt Sorter, etc.)
AGV Systems
Palletising and Depalletising System

Why Cotek:

- Wide programmable range
- Communication protocol available for PLC integration
- Parallel connection to support the power requirement for long distance production line
- Remote sense compensation voltage <0.5V
- Customized output voltage as default setting without having to update the safety approvals (cost saving)

Healthcare

Blood Analysis
Dental heating
Laboratory
Monitoring
Cytocentrifuge
Incubators

Why Cotek:

- Universal Input
- Wide programmable range
- PMBUS communication
- Temperature info read out

COTEK

AD-Series

1.5KW 12~400VDC Programmable Digital Power Supply


AD-1500

Features

- Universal AC input/Full range (90~264Vac)
- Programmable output voltage & current 0~105%
- Forced current sharing at parallel operation
- Constant current limit
- AUX POWER ：+5.0V/1.0A auxiliary
- Built-in OR'ing FETs
- I²C, PMBus(meet), UART, and MODBUS communication protocols (Reference datasheet for detail interface version info.)
- Support parallel operation via CAN Bus
- Linear output voltage & current control by external signal/resistor
- Intelligent GUI to set and monitor parameter
- Power OK signal
- Remote on/off, Remote sense function
- Protection: OVP, OLP, OTP, UTP, AC/Power/Fan Failure

AD-1500-HV - coming soon!

Protection		
Over Load	105% rated output power	Protection type: Constant current limit
Over Voltage	Programmable OVP, 120 ± 7% Vout.	Protection type: Latch-style (Recovery after reset AC power ON or inhibit)
Over Temperature	Detect on NTC, Protection type: Auto recovery after temperature goes down	

Function	
Auxiliary Power	+5.0V / 1.0A
Remote ON/OFF Control	By external switch / communication
Power OK Signal	Open drain signal low when PSU turns on, Max. sink current: 20mA, Max. drain voltage: 40V
Output Voltage Trim	Adjustment of output voltage is between 0% ~ 105% of rated output (C11 Version)
Output Current Trim	Adjustment of output current is between 0% ~ 105% of rated output (C11 Version)
Parallel	Current sharing via CANBUS (A23 & A24 Version)

Environment	
Working Temperature	-25 ~ +60°C (Refer to load de-rating curve)
Working Humidity	20 ~ 90% RH non-condensing
Storage Temp. & Humidity	-40°C ~ 85°C, 10 ~ 95% RH
Temperature Coefficient	± 0.02% / °C (0°C ~ 50°C)
Vibration	10 ~ 500Hz, 2G 10min. / 1cycle, period for 60min. each along X, Y, Z axes Compliance to IEC 68-2-6, IEC 68-2-64

Safety & EMC	
Safety Standards	UL 62368-1; EN 62368-1
Withstand Voltage	I/P-O/P: 3KVAC (4242VDC), I/P-FG: 1.5KVAC (2121VDC), O/P-FG: 0.5KVAC (707VDC)
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC
EMI Conduction & Radiation	EN 55032; EN 61204-3; EN 61000-6-3
Power Harmonic & Voltage Fluctuation and Flicker	EN 61000-3-2; EN 61000-3-3
EMS Immunity	EN55035: 2017 / A11: 2020 ; IEC 61000-4-2,3,4,5,6,8,11

Other	
Cooling	Load and temperature control fan
Product Dimension (WxHxD)	127.8x64x280.4 mm / 5.03x2.52x11.04 inch
Packing	2.2kg; 6pcs / 16kg / 1.86CUFT

Low Output Voltage (LV)

	AD-1500-12-xxx	AD-1500-15-xxx	AD-1500-24-xxx	AD-1500-30-xxx	AD-1500-36-xxx	AD-1500-48-xxx	AD-1500-60-xxx
Output							
DC Voltage	12V	15V	24V	30V	36V	48V	57V
Rated Current	125A	100A	62.5A	50A	41.7A	31.3A	26.3A
Current Range	0 ~ 125A	0 ~ 100A	0 ~ 62.5A	0 ~ 50A	0 ~ 41.7A	0 ~ 31.3A	0 ~ 26.3A
Rated Power*	1500W						
Ripple & Noise (Max.)	150mVp-p	150mVp-p	240mVp-p	300mVp-p	360mVp-p	480mVp-p	570mVp-p
Voltage Adj. Range	±5.0% Typical adjustment						
Voltage Tolerance	±2.0% (rate output voltage of single unit)						
Current Tolerance	±3.0% (rate output current of single unit)						
Line Regulation	±1.0%						
Load Regulation	±1.0%						
Setup, Rise Time	1300ms, 100ms at full load (230V ac)						
Hold Up Time (Typ.)	14ms / 230VAC at full load						
Input							
Voltage Range	90 ~ 264VAC, 250~370VDC (Refer to de-rating curve)						
Frequency Range	47 ~ 63Hz						
Power Factor (Typ.)	0.95 / 230VAC, 0.99 / 115VAC at ful load						
Efficiency (Typ.)	89%	90%	92%	92%	92%	92%	93%
AC Current (Typ.)	7.5A / 115VAC, 3.5A / 230VAC						
Inrush Current (Typ.)	30A / 115VAC, 45A / 230VAC						
Leakage Current	< 3.5mA / 240VAC						

High Output Voltage (HV)

	AD-1500-120-xxx	AD-1500-150-xxx	AD-1500-250-xxx	AD-1500-400-xxx
Output				
DC Voltage	120V	150V	250V	400V
Rated Current	12.5A	10.0A	6.0A	3.75A
Current Range	0 ~ 12.5A	0 ~ 10.0A	0 ~ 6.0A	0 ~ 3.75A
Rated Power*	1500W			
Ripple & Noise (Max.)	1200mVp-p	1500mVp-p	2500mVp-p	4000mVp-p
Voltage Adj. Range	±5.0% Typical adjustment			
Voltage Tolerance	±2.0% (rate output voltage of single unit)			
Current Tolerance	±3.0% (rate output current of single unit)			
Line Regulation	± 1.0%			
Load Regulation	± 1.0%			
Setup, Rise Time	1200ms, 100ms at full load (230V ac)			
Hold Up Time (Typ.)	14ms / 230VAC at full load			
Input				
Voltage Range	90 ~ 264VAC, 250~370VDC (Refer to de-rating curve)			
Frequency Range	47~63Hz			
Power Factor (Typ.)	0.95 / 230VAC, 0.99 / 115VAC at ful load			
Efficiency (Typ.)	92%			
AC Current (Typ.)	18A / 115VAC, 9A / 230VAC			
Inrush Current (Typ.)	30A / 115VAC, 45A / 230VAC			
Leakage Current	< 3.5mA / 240VAC			

*AD-1500-120-xxx, xxx can be **A23**, **A24**, or **C11**
Communication protocol : A23 : UART (RS-485), and Meet PMBus A24 : MODBUS & Meet PMBUS C11 : UART (RS-485

*Rated power could be de-rated when AC input is below 100VAC, please refer to datasheet

COTEK

AE-Series

800W~3KW Wide Programmable Range Single Output Power Supply

Features

- Universal AC input / Full range
- Programmable output voltage & current (0%~105%)
- Forced current sharing at parallel operation
- Constant current limit
- Selectable +5V / 0.5A or +9V / 0.3A auxiliary output
- Global control via RS232 / RS485 protocol
- Remote setting multiple PSU via RS-232, RS-485 & I²C
- Power OK signal
- Remote ON / OFF, Remote sense function
- Protection: OVP, OLP, OTP, OCP and Fan Failure

AE-1500 Oring Diode Version

- Built-in Oring Diode
- Built-in I²C and RS485 communication interface
- Built-in isolation IC for communication

AE-800 ORing version - coming soon!

Protection	
Over Load	105% rated output power, Protection type: Constant current limit
Over Voltage	Variable OVP Refer to VCI VS OVP curve.(OVP Tolerance 7%) Protection type : Latch-style (Recovery after reset AC power ON or inhibit)
Over Temperature	85 ±5°C detect on NTC, Protection type: Auto recovery after temperature goes down
Environment	
Working Temperature	AE-800 : -20 ~ +60°C AE-1500 & AE-3000 : -25 ~ +60°C (Refer to load de-rating curve)
Working Humidity	20 ~ 90% RH non-condensing
Storage Temp. & Humidity	-40°C ~ 85°C, 10 ~ 95% RH
Temperature Coefficient	± 0.02% / °C (0°C ~ 50°C)
Vibration	10 ~ 500Hz, 2G 10min. / 1cycle, period for 60min. each along X, Y, Z axes Compliance to IEC60068-2-6; IEC60068-2-64
Safety & EMC	
Safety Standards	Certified EN 62368-1; UL62368-1
Withstand Voltage	I/P-O/P: 3KVAC (4242VDC), I/P-FG: 1.5KVAC (2121VDC), O/P-FG: 0.5KVAC (707VDC)
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC (25°C / 70% RH)
EMI Conduction & Radiation	Certified EN 55032; EN 61204-3; EN 610000-6-3
Power Harmonic & Voltage Fluctuation and Flicker	Certified EN 61000-3-2; EN 61000-3-3
EMS Immunity	Certified EN 55035: 2017 / A11: 2020; IEC 61000-4-2,3,4,5,6,8,11
Other	
Cooling	Load and temperature control fan
Product Dimension (WxHxD)	AE-800 : 127x41x249 mm / 5.00x1.61x9.80 inch AE-1500 : 127x64x280 mm / 5.00x2.52x11.02 inch AE-3000 : 127x127x325mm/5.00x5.00x12.80 inch
Packing	AE-800 : Per Product 1.62kgs ; 9pcs / 17kg / 2.03CUFT AE-1500 : Per Product 2.6kg; 6pcs / 16.6kg / 1.86CUFT AE-3000 : Per Product 5.25kgs ; 4pcs / 22kg / 1.86CUFT

Output	AE-800-12	AE-800-15	AE-800-24	AE-800-30	AE-800-36	AE-800-48	AE-800-60
DC Voltage	12V	15V	24V	30V	36V	48V	60V
Rated Current	66.7A	53.4A	33.5A	26.7A	22.3A	16.7A	13.4A
Rated Power*	800W						
Ripple & Noise (Max.)	120mVp-p	150mVp-p	240mVp-p	300mVp-p	360mVp-p	480mVp-p	600mVp-p
Voltage Adj. Range	± 5.0% Typical adjustment by potentiometer. (VR1)						
Voltage Tolerance	±2.0% (rated output voltage of single unit)						
Current Tolerance	±3.0% (rated output current of single unit)						
Line & Load Regulation	± 1.0%						
Setup, Rise Time	800ms, 100ms at full load						
Hold Up Time (Typ.)	8ms / 230VAC at full load						
Input							
Voltage Range	90 ~ 264VAC, 127 ~ 370VDC (Refer to de-rating curve)						
Frequency Range	47~63Hz						
Power Factor (Typ.)	0.95 / 230VAC, 0.98 / 115VAC at full load						
Efficiency (Typ.)	89%	90%	92%	92%	92%	92%	93%
AC Current (Typ.)	9.3A / 115VAC, 3.5A / 230VAC						
Inrush Current (Typ.)	30A / 115VAC, 60A / 230VAC						
Leakage Current	< 3.5mA / 240VAC						

Output	AE-1500-12	AE-1500-15	AE-1500-24	AE-1500-30	AE-1500-36	AE-1500-48	AE-1500-60
DC Voltage	12V	15V	24V	30V	36V	48V	60V
Rated Current	125A	100A	62.5A	50A	41.7A	31.3A	25A
Rated Power*	1500W						
Ripple & Noise (Max.)	150mVp-p	150mVp-p	240mVp-p	300mVp-p	360mVp-p	480mVp-p	600mVp-p
Voltage Adj. Range	±5.0% Typical adjustment by potentiometer. (Via V-Adj from PSU front panel)						
Voltage Tolerance	±2.0% (rated output voltage of single unit)						
Current Tolerance	±3.0% (rated output current of single unit)						
Line & Load Regulation	± 1.0%						
Setup, Rise Time	800ms, 100ms at full load						
Hold Up Time (Typ.)	14ms / 230VAC at full load						
Input							
Voltage Range	90 ~ 264VAC, 127 ~ 370VDC (Refer to de-rating curve)						
Frequency Range	47~63Hz						
Power Factor (Typ.)	0.95 / 230VAC, 0.99 / 115VAC at ful load						
Efficiency (Typ.)STD/ORing	89% / 88%	90% / 89%	91% / 90%	92% / 91%	92% / 91%	92% / 91%	93% / 92%
AC Current (Typ.)	18A / 115VAC, 9A / 230VAC						
Inrush Current (Typ.)	30A / 115VAC, 45A / 230VAC						
Leakage Current	< 3.5mA / 240VAC						

Output	AE-3000-12	AE-3000-15	AE-3000-24	AE-3000-30	AE-3000-36	AE-3000-48	AE-3000-60
DC Voltage	12V	15V	24V	30V	36V	48V	60V
Rated Current	250A	200A	125A	100A	83.5A	62.5A	50A
Rated Power*	3000W						
Ripple & Noise (Max.)	150mVp-p	150mVp-p	240mVp-p	300mVp-p	360mVp-p	480mVp-p	600mVp-p
Voltage Adj. Range	± 5.0% Typical adjustment by potentiometer. (VR1)						
Voltage Tolerance	± 2.0%						
Current Tolerance	±3.0% (rated output current of single unit)						
Line & Load Regulation	± 1.0%						
Setup, Rise Time	2000ms, 100ms at full load						
Hold Up Time (Typ.)	14ms / 230VAC at full load						
Input							
Voltage Range	90 ~ 264VAC, 127 ~ 370VDC (Refer to de-rating curve)						
Frequency Range	47~63Hz						
Power Factor (Typ.)	0.95 / 230VAC, 0.98 / 115VAC at full load						
Efficiency (Typ.)	89%	90%	91%	91%	92%	92%	93%
AC Current (Typ.)	36A / 115VAC (3000W), 18A / 230VAC (3000W)						
Inrush Current (Typ.)	60A / 115VAC, 90A / 230VAC						
Leakage Current	< 3.5mA / 240VAC						

COTEK

AEK-Series

3000W 12~400VDC Wide Programmable Range Single Output Power Supply

Features

- Universal AC input / Full range
- Programmable output voltage & current (0%~105%)
- High power density 16.3W / inch^3
- Forced current sharing at parallel operation
- Constant current limit
- Selectable +5V / 0.5A or +9V / 0.3A auxiliary output
- Remote setting multiple PSU via RS-232, RS-485 & I^{2}C
- Power OK signal
- Remote ON / OFF, remote sense function
- Protection: OVP, OLP, OTP, OCP and Fan Failure
- Global control via RS232 / RS485 protocol

AEK-3000 Oring Diode Version

- Built-in Oring Diode
- Built-in I^{2}C and RS485 communication interface
- Built-in isolation IC for communication

AEK-3000-LV ORing version - coming soon!

	AEK-3000
Protection	
Over Load	105% rated output power. Protection type: Constant current limit
Over Voltage	Variable OVP, 120±7% Vout. Refer to VCI v.s. OVP curve in the datasheet Protection type: Latch-style (Recovery after reset AC power ON or inhibit)
Over Temperature	85 ± 5°C detect on NTC, Protection type: Auto recovery after temperature goes down
Environment	
Working Temperature	-20 ~ +60°C (Refer to load de-rating curve)
Working Humidity	20 ~ 90% RH non-condensing
Storage Temp. & Humidity	-40°C ~ 85°C, 10 ~ 95% RH
Temperature Coefficient	± 0.02% / °C (0°C ~ 50°C)
Vibration	10 ~ 500Hz, 2G 10min. / 1cycle, period for 60min. each along X, Y, Z axes Compliance to IEC 60068-2-6, IEC 60068-2-64
Safety & EMC	
Safety Standards	Certified UL 62368-1; EN 62368-1
Withstand Voltage	I/P-O/P: 3KVAC (4242VDC), I/P-FG: 1.5KVAC (2121VDC), O/P-FG: 0.5KVAC (707VDC)
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC (25°C / 70% RH)
EMI Conduction & Radiation	Certified EN 55032; EN 61204-3; EN 610000-6-3
Power Harmonic & Voltage Fluctuation and Flicker	Certified EN 61000-3-2; EN 61000-3-3
EMS Immunity	Certified EN 55035: 2017 / A11: 2020; IEC 61000-4-2,3,4,5,6,8,11
Other	
Cooling	Load and temperature control fan
Product Dimension (WxHxD)	170x64x280 mm / 6.69x2.52x11.02 inch
Packing	Per Product 3.3kgs ; Per Carton 6pcs / 22.7kgs / 2.48CUFT

Product Spec.

Low Output Voltage (LV)

	AEK-3000-12	AEK-3000-15	AEK-3000-24	AEK-3000-30	AEK-3000-36	AEK-3000-48	AEK-3000-60
Output							
DC Voltage	12V	15V	24V	30V	36V	48V	60V
Rated Current	200A	160A	125A	100A	83.5A	62.5A	50A
Current Range	0 ~ 200A	0 ~ 160A	0 ~ 125A	0 ~ 100A	0 ~ 83.5A	0 ~ 62.5A	0 ~ 50A
Rated Power*	2400W	2400W	3000W	3000W	3006W	3000W	3000W
Ripple & Noise (Max.)	150mVp-p	150mVp-p	240mVp-p	300mVp-p	360mVp-p	480mVp-p	600mVp-p
Voltage Adj. Range	±5.0% Typical adjustment by potentiometer. (Via V-Adj from PSU front panel)						
Voltage Tolerance	±2.0% (rated output voltage of single unit)						
Current Tolerance	±3.0% (rated output current of single unit)						
Line Regulation	±1.0%						
Load Regulation	±1.0%						
Setup, Rise Time	800ms, 100ms at full load						
Hold Up Time (Typ.)	14ms / 230VAC at full load						
Input							
Voltage Range	90 ~ 264VAC, 127 ~ 370VDC (Refer to de-rating curve)						
Frequency Range	47~63Hz						
Power Factor (Typ.)	0.95 / 230VAC, 0.98 / 115VAC at full load						
Efficiency (Typ.)	88%	89%	91%	91%	92%	92%	93%
AC Current (Typ.)	19.7A / 115VAC (2000W), 16.5A / 230VAC (3000W)						
Inrush Current (Typ.)	33A / 115VAC, 65A / 230VAC						
Leakage Current	< 3.5mA (240VAC)						

High Output Voltage (HV)

	AEK-3000-150	AEK-3000-200	AEK-3000-250	AEK-3000-300	AEK-3000-400
Output					
DC Voltage	150V	200V	250V	300V	400V
Rated Current	20A	15A	12A	10A	7.5A
Current Range	0 ~ 20A	0 ~ 15A	0 ~ 12A	0 ~ 10A	0 ~ 7.5A
Rated Power*	3000W	3000W	3000W	3000W	3000W
Ripple & Noise (Max.)	1500mVp-p	2000mVp-p	2500mVp-p	3000mVp-p	4000mVp-p
Voltage Adj. Range	±5.0% Typical adjustment by potentiometer. (Via V-Adj from PSU front panel)				
Voltage Tolerance	±2.0% (rated output voltage of single unit)				
Current Tolerance	±3.0% (rated output current of single unit)				
Line Regulation	±1.0%				
Load Regulation	± 1.0%				
Setup, Rise Time	1100ms, 350ms at full load				
Hold Up Time (Typ.)	14ms / 230VAC at full load				
Input					
Voltage Range	90 ~ 264VAC, 127 ~ 370VDC (Refer to de-rating curve)				
Frequency Range	47~63Hz				
Power Factor (Typ.)	0.95 / 230VAC, 0.98 / 115VAC at full load				
Efficiency(Typ.) STD/ORing	93% / 91%				
AC Current (Typ.)	19.7A / 115VAC (2000W), 14.5A / 230VAC (3000W)				
Inrush Current (Typ.)	33A / 115VAC, 65A / 230VAC				
Leakage Current	< 3.5mA (240VAC)				

COTEK

AK-Series

650W & 1KW Programmable Single Output Power Supply

Features

- Universal AC input / Full range
- Programmable output voltage (30%~105%)
- Programmable output current (40%~105%)
- +5V / 0.5A auxiliary output
- 1U profile, high power density 11.1W / in^3 (AK-1000)
- Forced current sharing at parallel operation
- Power OK signal
- Remote ON / OFF, remote sense function
- Protection: OVP, OLP, OTP, OCP, Fan failure

Protection		
Over Load	105~125% rated output power	Protection type: Total power limit, latch-style (recovery after reset AC power ON or inhibit)
Over Voltage	Variable OVP, 125 ± 10% Vout.	Protection type: Latch-style (Recovery after reset AC power ON or inhibit)
Over Temperature	By detecting primary and secondary heat sink Protection type: Shutdown O/P voltage (Recovers automatically after temperature goes down)	

Function	
Auxiliary Power	5V / 0.5A (±3%)
Remote ON/OFF Control	External switch or NPN transistor to turn ON / OFF
Power OK Signal	Open drain signal low when PSU turns ON, Max. sink current: 20mA; Max. drain voltage: 40V
Output Voltage Trim	Adjustment of output voltage is between 30~105% of rated output
Output Current Trim	Adjustment of output current is between 40~105% of rated output
Parallel	Yes, please refer to datasheet

Environment	
Working Temperature	-25 ~ +60°C (Refer to load de-rating curve)
Working Humidity	20 ~ 90% RH non-condensing
Storage Temp. & Humidity	-40°C ~ 85°C, 10 ~ 95% RH
Temperature Coefficient	± 0.02% / °C (0°C ~ 50°C)
Vibration	10 ~ 500Hz, 5G 10min. / 1cycle, period for 60min. each along X, Y, Z axes Compliance to IEC 68-2-6; IEC 68-2-64

Safety & EMC	
Safety Standards	Certified EN 62368-1; UL 62368-1
Withstand Voltage	I/P-O/P: 3KVAC (4242VDC), I/P-FG: 1.5KVAC (2121VDC), O/P-FG: 0.5KVAC (707VDC)
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC (25°C / 70% RH)
EMI Conduction & Radiation	Certified EN 55032; EN 61204-3; EN 610000-6-3
Power Harmonic & Voltage Fluctuation and Flicker	Certified EN 61000-3-2; EN 61000-3-3
EMS Immunity	Certified EN 55035: 2017 / A11: 2020; IEC 61000-4-2,3,4,5,6,8,11

Other		
Cooling	Load and temperature control fan	
Product Dimension (WxHxD)	AK-650 : 127x41x249 mm / 5.00x1.61x9.80 inch (WxHxD)	AK-1000 : 127x41x283 mm / 5.00x1.61x11.14 inch (WxHxD)
Packing	AK-650 : Product 1.68kgs ; Per Carton 9pcs / 16.1kgs / 1.86CUFT	AK-1000 : Product 2.1kgs ; Per Carton 9pcs / 19.9kgs / 1.86CUFT

	AK-650-12	AK-650-15	AK-650-24	AK-650-27	AK-650-48
Output					
DC Voltage	12V	15V	24V	27V	48V
Rated Current	50A	40A	27A	24A	13.6A
Current Range	0 ~ 50A	0 ~ 40A	0 ~ 27A	0 ~ 24A	0 ~ 13.6A
Rated Power*	600W	600W	650W	650W	650W
Ripple & Noise (Max.)	150mVp-p	< 1% (mVp-p), according to the rated output voltage			
Voltage Adj. Range	± 5.0% Typical adjustment by potentiometer. (VR1)				
Voltage Tolerance	± 1.0%				
Line Regulation	± 0.5%				
Load Regulation	± 0.5%				
Setup, Rise Time	800ms, 60ms at full load				
Hold Up Time (Typ.)	16ms / 230VAC at full load				
Input					
Voltage Range	90 ~ 264VAC , 127 ~ 370VDC (Refer to load de-rating curve)				
Frequency Range	47~63Hz				
Power Factor (Typ.)	0.98 / 230VAC, 0.99 / 115VAC at full load				
Efficiency (Typ.)	88%	88%	90%	90%	91%
AC Current (Typ.)	7.5A / 115VAC, 3.5A / 230VAC				
Inrush Current (Typ.)	27A / 115VAC, 54A / 230VAC				
Leakage Current	< 1.0mA / 240VAC				

	AK-1000-24	AK-1000-27	AK-1000-48
Output			
DC Voltage	24V	27V	48V
Rated Current	40A	37A	21A
Current Range	0 ~ 40A	0 ~ 37A	0 ~ 21A
Rated Power*	1000W	1000W	1000W
Ripple & Noise (Max.)	< 1% (mVp-p), according to the rated output voltage		
Voltage Adj. Range	± 5.0% Typical adjustment by potentiometer. (VR1)		
Voltage Tolerance	± 1.0%		
Line Regulation	± 0.5%		
Load Regulation	± 0.5%		
Setup, Rise Time	800ms, 60ms at full load		
Hold Up Time (Typ.)	16ms / 230VAC at full load		
Input			
Voltage Range	90 ~ 264VAC , 127 ~ 370VDC (Refer to load de-rating curve)		
Frequency Range	47~63Hz		
Power Factor (Typ.)	0.98 / 230VAC, 0.99 / 115VAC at full load		
Efficiency (Typ.)	89%	89%	90%
AC Current (Typ.)	12A / 115VAC, 5A / 230VAC		
Inrush Current (Typ.)	27A / 115VAC, 54A / 230VAC		
Leakage Current	< 1.0mA / 240VAC		

Product Spec.

COTEK

Professional Power Solutions Design and Manufacturing

COTEK

Pure Sine Wave Inverter / Charger

Unlimited Power Energy

Pure Sine Wave Inverter

Inverter / Charger

Battery Charger

COTEK ELECTRONIC IND. CO., LTD

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No.33, Sec. 2, Renhe Rd., Daxi Dist., Taoyuan City 33548, Taiwan

www.cotek.com.tw

Inverter / Charger		Pure Sine Wave Inverter			Charger
SC Series	SL Series	SD Series	SP Series	SE Series	CX Series

2021 / 2022

Product Catalog

COTEK

Professional Power Solutions Design and Manufacturing

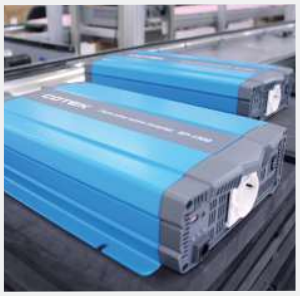
COTEK is committed to providing proactive service, innovative technology and total quality assurance since COTEK was established in 1986. With Corporate Offices in Tao-yuan, Taiwan, COTEK is a technology-oriented company focusing on developing, designing and manufacturing products including:

1. DC / AC Pure Sine Wave Inverter
2. Inverter / Charger
3. Battery Charger
4. AC / DC Switching Mode Power Supply

2018 2019 2020 2021

D&B Top 1000 Elite SME Award

D-U-N-S Number : 65-728-6662



Why COTEK

One-stop shopping

Diverse power product lines that fulfill our business partner's power requirement across multiple sectors (AC/DC, DC/AC, Chargers and Inverter Chargers)

World-Class R&D Team

30 years' software & hardware development capability

Product Safety Approvals

Meet the global latest safety standards

Flexibility

To provide off-the-shelf and customized design service

Prompt Service

Authorized distributor partners in over 38 countries to ensure local services in the same time zone

Production Experience

Sold more than 20 million pcs to the worldwide market

COTEK Headquarters, Taiwan

No. 33, Sec. 2, Renhe Rd., Daxi Dist., Taoyuan City 33548, Taiwan

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COTEK Factory, Dongguan China

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Product Index

Pure Sine Wave Inverter, Inverter / Charger

				200	400	700	1000	1200	1500	2000	2500	3000	3500	4000	Wattages
	SC	High Frequency Inverter / Charger	P.7					○		○		○			
	SL	Low Frequency Inverter / Charger	P.9							○		○			
	SD	Parallelable Pure Sine Wave Inverter with AC Bypass Function	P.11						○		○		○		
	SP	Pure Sine Wave Inverter 700W~4000W	P.13			○	○		○	○		○		○	
	SE	Pure Sine Wave Inverter 200W~400W	P.17	○	○										

Advanced Battery Charger

				12V					24V		
	CX	Intelligent Battery Charger with Power mode	P.15	15A	25A	35A	50A	80A	12.5A	25A	40A

Remote Control

		SC Series	SL Series	SD Series	SP Series	SE Series	CX Series
	CR	CR-20C, CR-16B	CR-20, CR-16B	CR-10, CR-8, CR-6	CR-16A, CR-8	CR-8	CR-1

Coming Soon

Innovative Portable Backup Power

Built for anyone , anytime , anywhere

System Specification

	Archer 500	Archer 1000	Archer 1500
Cell Chemistry		LiFePo4	
Pack Capacity	512Wh / (12.8V/40Ah)	1024Wh / (12.8V/80Ah)	1536Wh / (25.6V/75Ah)
Inverter Pure sine wave inverter	500VA continuous , 1000W surge	1000VA continuous, 2000W surge	1500VA continuous, 3000W surge
Recharging	Car Charger (60W) AC Wall Charger (60W) Solar Panel (150W)	Car Charger (120W) AC Wall Charger (120W) Solar Panel (150W)	Car Charger (120W) AC Wall Charger (185W) Solar Panel (250W)

Applications

Vehicle

Marine

Emergency Lighting

Backup Power

Electric Vehicle

Movable Energy Storage

Energy Storage System (ESS)

Product Benefit

Full Inverter & Charger Product Portfolio

- Inverter, Charger, Inverter Charger, Rack inverter

Wide Range of Power Inverter

- 200~4000Watts, 100-120VAC & 200-240VAC, 12/24/48VDC

Meet the Global Safety Standard

- UL, FCC, CE, TUV, E-Mark, etc...

Go-To-Market Strategy

- Standard Modification Service
- ODM Service

COTEK

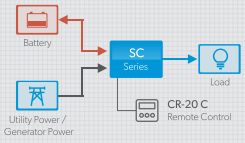
- Inverter / Charger
  - Inverter
  - Charger

Gemini SC-Series

High Frequency Pure Sine Wave Inverter / Charger

Bi-directional All-in-One Design

The Gemini is not just a combination of an inverter and a battery charger. There are many additional features which can be used to increase the total available AC power, even when external AC power is limited.



Connection Diagram

5-in-1 Operating Modes

1. Inverter mode 2. Charger mode 3. Power Sharing
4. Power Generation 5. Power Support

Suggested Accessory

CR-20C
Remote Control

TS-01
Temperature Sensor

User's Manual

Features

1 Night Mode

Keep the lowest fan duty/speed, Provide the quiet environment while the system operating.

2 AC Input Current Limit Control

Avoid the shut down of input power breaker system

3 Adjustable charging voltage in each stage

Support various battery types
(GEL / FLOODED / AGM / CUSTOMER)

4 Continual Full Load Operation

Full Load -20 °C ~ 40 °C, Power de-rating 60 W / °C, 41~60 °C.

Specification

		SC-1200	SC-2000	SC-3000
AC Output	Continuous Output Power	1200 VA ± 3%	2000 VA ± 3%	3000 VA ± 3%
	Frequency	50/60 Hz +/-0.3 Hz (User-selectable)		
Protection	Input Protection	Over / Under Voltage, Reverse Polarity (Internal Fuse) / Battery Temp. protection		
	AC Output Protection	Short-Circuit, Overload		
	Temperature protection	Shutdown		
AC Input	Input Frequency Range	50Hz:47 ~ 53 Hz / 60Hz:57 ~ 63 Hz		
	Efficiency (Max.)	>88%	>88%	>87%
DC source	Output Voltage	Battery Voltage		
	Output Current	20A Max		
DC Output	Battery Control	By 3-stage Battery Charging (Bulk / Absorption / Float)		
Signal and Control		Remote Control Panel / Remote Control Termina/ Dry Contact Terminall / RS-232		
Working Temp.	Full Load	-20 °C ~ 50 °C	-20 °C ~ 40 °C	-20 °C ~ 40 °C
	Power de-rating	40 W per °C, 51~60 oC	60W per °C, 41~60 °C	40W per °C, 41~60 °C
Dimension		251 x 116 x 386mm	251 x 116 x 453mm	314 x 127.4 x 508.8 mm

		SC Series-112	SC Series-124	SC Series-212	SC Series-224
DC Input	Nominal Voltage	12 VDC	24 VDC	12 VDC	24 VDC
	Input Voltage Range	10.5~16.5 VDC±0.3V	21 ~ 33 VDC ±0.5V	10.5~16.5 VDC±0.3V	21 ~ 33 VDC ±0.5V
	Input Current (Max)	SC-1200 : 132A SC- 2000 : 260 A SC- 3000 : 390 A	SC-1200 : 66A SC- 2000 : 130 A SC- 3000 : 195 A	SC-1200 : 132A SC- 2000 : 260 A SC- 3000 : 390 A	SC-1200 : 66A SC- 2000 : 130 A SC- 3000 : 195 A
AC Output	Output Voltage	100 / 110 / 115 / 120VAC +/-3%		200 / 220 / 230 / 240VAC +/-3%	
	Max. Efficiency (Full Load)	89%	90%	89%	90%
	INV. AC Output (Max.)	SC-1200 : 12A, SC-2000 : 20A, SC-3000 : 30A		SC-1200 : 6A, SC-2000 : 10A, SC-3000 : 15A	
	AC Output (Max.)	SC-1200 : 30A, SC-2000 : 30A, SC-3000 : 50A		SC-1200 : 22A, SC-2000 : 26A, SC-3000 : 30A	
Protection	AC Input Protection	30 Amp Circuit Breaker		16 Amp Circuit Breaker	
AC Input	Nominal Voltage	110 VAC, 50 / 60Hz (User-selectable)		220 VAC, 50 / 60Hz(User-selectable)	
	Input Voltage Range	90 ~ 132 VAC		180 ~ 264 VAC	
	Nominal Current	SC-1200 : 9.2A , SC-2000 :16.5A SC-3000 : 24.5A (@110VAC)		SC-1200 : 5.1A , SC-2000 : 7.9A SC-3000 : 11.7A (@230VAC)	
	AC Input	30 A MAX		16 A MAX	
DC Output	Charging Current SC-1200	12.5/25/37.5/50A	6.25/12.5/18.75/25A	12.5/25/37.5/50A	6.25/12.5/18.75/25A
	SC-2000	25/50/75/100A	2.5/25/37.5/50A	25/50/75/100A	2.5/25/37.5/50A
	SC-3000	37.5/75/112.5/150A	18.75/37.5/56.25/75	37.5/75/112.5/150A	18.75/37.5/56.25/75
	Max. Output Voltage	14.7 VDC	29.4 VDC	14.7 VDC	29.4 VDC
Bypass Relay	Relay Specification	30 Amp / 250 VAC			
Safety and EMS	Safety Standards	UL458/Supplement SA/UL1741* (SC-3000 certified for UL458 only)		EN 62368-1	
	E-mark	—		Certified CISPR 25 ; ISO7637-2 (SC-1200/2000)	
	EMC Standards	Certified FCC Class A*		EN55032 Class A* , EN55024 Class A* , EN61000-3-2, 3-3 EN61000-4-2, 3, 4, 5, 6, 8, 11	

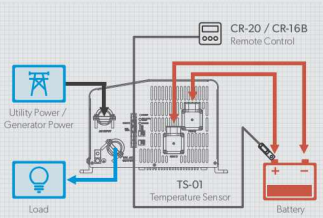
*Warning : SC series is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

COTEK

Inverter / Charger
Inverter
Charger

SL-Series

Low Frequency Pure Sine Wave Inverter / Charger



Connection Diagram

DC / AC Bi-direction

5-in-1 Operating Modes

Suggested Accessory

CR-20
Remote Control
(Display + Setting)

CR-16B
Remote Control
(Display + Power on/off)

TS-01
Temperature Sensor

User's Manual

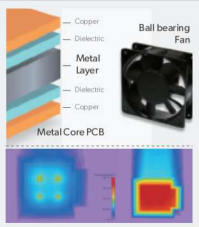
Features

1 Splits Phase1 P3W

12000W : 50A @ 120VAC (Hot 1)
50A @ 120VAC (Hot 2)

2 Wide DC Input Voltage Range

9~17 VDC±0.3V, Support various battery types

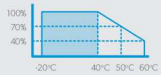


3 Seamless switch between AC and DC

0 Second transfer-switch between AC and DC, avoid damage to the instrument caused by transient voltage

4 Heat Dissipation / Continual Full Load Operating

Full load up to 40 °C, De-rating 40 °C~60 °C



Specification

		SL-2000-112	SL-3000-112
Power			
AC Output	Continuous Output Power	2000 VA ± 3%	3000 VA ± 3%
	Frequency	60 Hz ± 0.1Hz	
	Output Voltage	120 VAC ± 5% (≤Continuous Power)	
	Max. Efficiency	>90%	
DC Input	Nominal Voltage	12VDC	
	Input Voltage Range	9~17 VDC±0.3V	
	AC Relay Transfer Time	<16ms	
AC Input	AC Input Voltage Range	80 ~ 140 VAC ± 5% (120VAC nominal)	
	AC Input Frequency Range	50 ~ 70 Hz	
	AC Nominal Current	15A	18A
	AC Input Current Range*	5 ~ 50A	
	Charger Efficiency (Peak)	85%	
	Power Factor Correction (PFC)	> 0.97 (50% Load)	
DC Output	Charging Current Range	0 ~ 100A	0 ~ 125A
	Four-Stage Charging*	Bulk, Absorption, Final, Equalize	
Protection	Battery Temperature protection	By a RJ-11 connector to battery temperature sensor	
Equalization	Max. output Voltage	16VDC	
	Max. output Current	10A	
Bypass Switch	Switch Specification (Max. each input)	AC 50Amp	
Environment			
Working Temperature	Full Load	-20°C ~ 40°C (De-rating : 60W per °C, 41~60°C)	
	Storage	-30°C~70°C, 0~95% Non-condensing	
Safety & EMC			
Safety Standards		UL458 & Supplement SA	
EMC Standards		FCC Class B	
Other			
Battery Type		Lead Acid / Li-ion / Gel / AGM	
Control & Signal		Remote Control / LED / Dry Contact Terminal by relay	
Dimension (WxHxD)		321 x 203 x 349mm / 12.64 x 7.99 xl 3.74 inch	
Net Weight		17.6 Kg (38.71 Lbs)	22.6 Kg (49.82 Lbs)

*Setting by remote control

COTEK

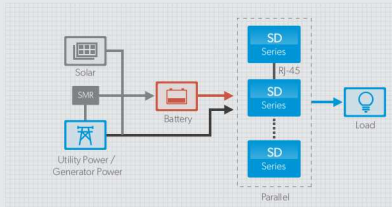
Inverter / Charger
- Inverter
- Charger

SD-Series

Parallelable Pure Sine Wave Inverter with AC Bypass Function

Parallel redundancy design

- N+1 redundancy
- Scalable power
- AC bypass



Connection Diagram

SD-2500

Suggested Accessory

CR-10
Remote Control
(Display + Setting)

CR-8
Remote Control
(Power on/off)

CR-6
Remote Control
(Display + Power on/off)

User's Manual

Features

1 1Φ3W / 3Φ4W Power Systems

Suitable for commercial & industrial applications

2 SNMP

Allow user to remote control the SD series via The Ethernet (Optional)

3 Static Transfer Switches (STS)

Provide uninterrupted power to your load such as PC or storage device. (Optional)

Specification

	SD1500	SD2500	SD3500
Output			
Rated Power	1500 VA	2500 VA	3500 VA
Function & Environment			
Input Protection	Reverse Polarity (Fuse) / Under Voltage / Over Voltage / AC Over Current (Breaker)		
Output Protection	Short Circuit / Overload / Over Temperature / Over Voltage		
Working Temp.	-20°C ~ 40°C, Power De-rating 40°C ~ 60°C		
Storage Temp	-40°C ~ 70°C, Max. 90%, RH non-condensing		
Control & Signal	LED , Remote Control (Optional), RS-232, SNMP (Optional)		
Dimension (WxHxD)	283x128x351 mm 11.14x5.04x13.82 inch	283x128x436 mm 11.14x5.04x17.17 inch	283x128x496 mm 11.14x5.04x19.53 inch
Weight	5.5kg	8kg	10kg

	SD Series - 112	SD Series - 124	SD Series - 148	SD Series - 212	SD Series - 224	SD Series - 248
Output						
AC Voltage	100 / 110 / 115 / 120 VAC, 50/60 Hz ± 1%			200 / 220 / 230 / 240 VAC, 50/60 Hz ± 1%		
DC Input						
DC Voltage	12VDC	24VDC	48VDC	12VDC	24VDC	48VDC
Voltage Range	10~16VDC	20~32VDC	40~64VDC	10~16VDC	20~32VDC	40~64VDC
AC Input						
AC Range	100 / 110 / 115 / 120VAC ± 25%, recover ± 12.5%			200 / 220 / 230 / 240VAC ± 25%, recover ± 12.5%		
Frequency Selectable	50 / 60 Hz					
Protection						
Efficiency (Max.)	90%	90%	91%	90%	91%	91%
Safety & EMC						
Safety Standards	UL 458 (UL only for hard wire)		----	EN 62368-1		
EMC Standards	FCC class B			EN 55014-1* ; EN 55014-2* EN 61000-3-2, -3-3 EN 61000-6-1, -6-2, -6-3, -6-4 (SD3500) , EN 61204-3 (SD3500) SD1500 : Certified EN55032, EN55024		
E-mark	----			Certified CISPR 25; ISO 7637-2		

*EN55014-1, EN55014-2 Class B : Output cable less than 2 meters.

COTEK

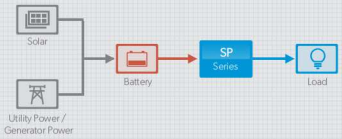
Inverter / Charger
- Inverter
- Charger

SP-Series

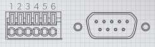
Pure Sine Wave Inverter

SP - Series

The unit is a highly reliable DC-AC inverter system,
designed with advanced power electronic and microprocessor technology.



Connection Diagram



RS-232 & Green Terminal

Alternative solution to set the parameters
Control "Fault" alarm Power on/off remotely

SP-2000

700W	1000W	1500W	2000W	3000W	4000W

Suggested Accessory

CR-16A
Remote Control
(Display + Power on/off)

CR-8
Remote Control
(Power on/off)

User's Manual

Features

1 Wide input voltage range
Fulfill the majority user applications
(10.5 ~ 16.5V)

2 Input & Output fully isolation
Prevent from electrical shock

3 Adjustable power saving
Suitable for different user scenario to
activate power saving mode

4 Output voltage and frequency selectable
Easy operation and suitable for home and office appliances, portable power equipment, vehicle, yacht and off-grid solar power systems....etc.
(Applicable range: 100~200V 200~240V 50/60Hz)

Specification

	SP - 700	SP - 1000	SP - 1500	SP - 2000	SP - 3000	SP - 4000
Output						
Rated Power	700 VA	1000 VA	1500 VA	2000 VA	3000 VA	4000 VA
Function & Environment						
Protection	Output Overload / Output Short / Under Voltage / Over Voltage / Over Temperature / DC Input Reverse Polarity					
Working Temp.	-20°C ~ 40°C (De-rating : 40W per °C, 41~70 °C)					
Storage Temp	-30°C ~ 70°C, Max. 90%, RH non-condensing					
Control & Signal	LED , Remote Control (Optional), RS-232, 6-port green terminal					
Dimension (WxHxD)	200x83x330mm	200x83x372mm	248x83x421mm	248x83x443mm	255x158x442mm	255x158x462mm
inch	7.78x3.27x12.99	7.87x3.27x14.65	9.67x3.27x16.57	9.67x3.27x17.44	10.04x6.22x17.40	10.04x6.22x18.19
Weight	2.6 kg	3.26 kg	4.14 kg	5.24 kg	8.2 kg	10 kg

	SP Series - 112	SP Series - 124	SP Series - 148	SP Series - 212	SP Series - 224	SP Series - 248
Output						
AC Voltage	100 / 110 / 115 / 120 VAC, 50/60 Hz ± 5%			200 / 220 / 230 / 240 VAC, 50/60 Hz ± 5%		
Output Waveform	Pure Sine Wave (THD<5% @ Normal Load)			Pure Sine Wave (THD<3% @ Normal Load)		
Input						
DC Voltage	12VDC	24VDC	48VDC	12VDC	24VDC	48VDC
Voltage Range	10.5~16.5VDC	21~33VDC	42~66VDC	10.5~16.5VDC	21~33VDC	42~66VDC
Power Saving Mode	<0.1A@12VDC	<0.06A@24VDC	<0.05A@48VDC	<0.1A@12VDC	<0.06A@24VDC	<0.05A@48VDC
Protection						
Efficiency (Max.)	92%	93%	94%	94%	94%	95%
Safety & EMC						
Safety Standards	UL 458 (UL only for GFCI & hard wire)		—	EN 62368-1		
EMC Standards	FCC class A : SP-2000, SP-3000, SP-4000 FCC class B : SP-700, SP-1000, SP-1500			EN 55032 class A : SP-2000, SP-3000, SP-4000 class B : SP-700, SP-1000, SP-1500 ; EN 55024 EN 61000-3-2, -3-3 EN 61000-4-2, 3, 4, 5, 6, 8, 11		
E-mark	—			CISPR 25; ISO 7637-2		

*Warning : SP-2000/3000/4000 is a class A product.
In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

COTEK

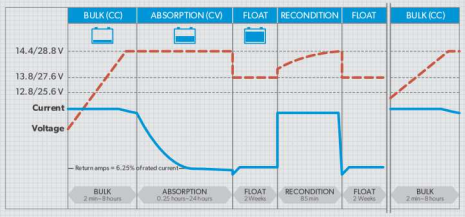
Inverter / Charger
Inverter
Charger

CX-Series

Intelligent Battery Charger with Power Mode

User programmable charging curve

Provide flexibility for various battery types and extend battery life



Three-stage Charging Curve

CX-1250

CX Series

Max 3 batteries charging at the same time and auto Recondition to prevent any battery fatigue symptoms such as sulphation

Suggested Accessory

CT-20L
Charger Controller

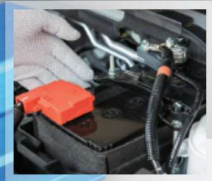
TS-01
Temperature Sensor

User's Manual

Features

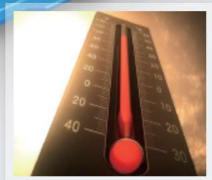
1 ESB Maintenance Function

Keep ESB (Engine Start Battery) in good condition



2 Night Mode

Keep the lowest fan duty/speed, Provide the quiet environment while the system operating.



3 Temperature Compensation

Extend batteries' life and reduce life cycle cost

4 Universal AC voltage 90~264Vac

Specification

Output	CX1215	CX1225	CX1235	CX1250	CX1280
Main Rated Current	15A	25A	35A	50A	80A
Battery Type	Lead Acid / Li-ion / Gel / AGM				
Battery Charging Mode	3 stage charging capability				
Input					
Efficiency (Typ.) at 230VAC	87%				
Voltage Range	90~264VAC				
Frequency Range	47~63 Hz				
Function & Environment					
Protection	Short Circuit / Over Voltage / Over Temperature				
Power Mode	Supply 13.2 V current limit output voltage				
Working Temp.	-20°C ~ 50°C (refer to output load de-rating curve)				
Storage Temp., Humidity	-40°C ~ 85°C, 20 ~ 90% RH				
Dimension (WxHxD)	183x72x243 mm	183x72x243 mm	183x72x263 mm	213x77x272 mm	213x77x312 mm
Weight	1.6kg	1.7kg	1.9kg	3.1kg	4.0kg

Output	CX2415	CX2425	CX2440
Main Rated Current	12.5A	25A	40A
Battery Type	Lead Acid / Li-ion / Gel / AGM		
Battery Charging Mode	3 stage charging capability		
Input			
Efficiency (Typ.) at 230VAC	87%		
Voltage Range	90~264VAC		
Frequency Range	47~63 Hz		
Function & Environment			
Protection	Short Circuit / Over Voltage / Over Temperature		
Power Mode	Supply 26.4 V current limit output voltage		
Working Temp.	-20°C ~ 50°C (refer to output load de-rating curve)		
Storage Temp., Humidity	-40°C ~ 75°C, 20 ~ 90% RH		
Dimension (WxHxD)	183x72x243 mm	213x77x272 mm	213x77x312 mm
Weight	1.6kg	2.9kg	3.9kg

Safety & EMC	
Safety Standards	UL 458 (UL only for CX1235, CX1250, CX1280, CX2425, CX2440), EN 60335-1, EN 60335-2-29
EMC Standards	Certified EN 55014-1; EN 61000-3-2, -3-3 ; EN 61000-6-3 ; IEC 61000-4-2, 3, 4, 5, 6, 8, 11; EN 61000-6-1; EN 55014-2

COTEK

SE-Series

Pure Sine Wave Inverter

	SE200	SE400
Output		
Rated Power	200 VA	400 VA
Frequency	50 / 60 Hz ± 0.5% (Dip Switch Selectable)	
Protection		
Protection	Overload, Short circuit, DC over / Under voltage, Over temperature, DC Input Reverse Polarity	
Environment		
Working Temp.	-20°C ~ 60°C, refer to the power de-rating curve	
Storage Temp.	-30°C ~ 70°C, 10 ~ 95 % RH non-condensing	
Other		
Dimension (WxHxD)	150x68x187 mm / 5.91x2.68x7.36 inch	
Packing	1.6 kg	1.22 kg

	SE Series - 112	SE Series - 124	SE Series - 148 (SE400)	SE Series - 212	SE Series - 224	SE Series - 248 (SE400)
Output						
AC Voltage	100 / 110 / 115 / 120 VAC ± 5%			200 / 220 / 230 / 240 VAC ± 5%		
Input						
DC Voltage	12VDC	24VDC	48VDC	12VDC	24VDC	48VDC
Voltage Range	10.0~16.0VDC(SE200) 10.5~16.0VDC(SE400)	20.0~32.0VDC(SE200) 21.0~32.0VDC(SE400)	42.0~64.0VDC	10.0~16.0VDC(SE200) 10.5~16.0VDC(SE400)	20.0~32.0VDC(SE200) 21.0~32.0VDC(SE400)	42.0~64.0VDC
Efficiency (Max.)	89%	91%	90%	91%	93%	91%
Safety & EMC						
Safety Standards	UL 458 (UL only for SE400 GFCI receptacles)		----	EN 62368-1		
EMC Standards	FCC class B			EN 55032 class B ; EN 55024 EN 61000-3-2, -3-3 IEC 61000-4-2, 3, 4, 5, 6, 8, 11		
E-mark	----			Certified CISPR 25; ISO 7637-2		

Features

- Output voltage and frequency selectable
- Wide input voltage range (10~16V)
- Remote Control Green Terminal
- Power saving mode selectable
- Input & output fully isolation

CR-8
Remote Control

User's Manual

Packing Information

SL Series	DC Input	AC Input	AC Output	Connection Type	PCS/CTN	N.W./CTN (KGS)	G.W./CTN (KGS)	CBM /CTN	PCS /PLT	CARTONS/PLT
SL - 2000	12V	80-140V	120V	HW	1	18.5	21	0.06	30	30
SL - 3000	12V		120V	HW	1	22.6	25	0.06	30	30
SC Series										
SC - 1200	12V, 24V	90-132V, 180-264V	100-120V, 200-240V	HW	4	18.2	22.2	0.11	64	16
SC - 2000	12V, 24V	90-132V, 180-264V	100-120V, 200-240V	HW	3	18	21.54	0.09	60	20
SD Series										
SD - 1500	12V, 24V, 48V			GFCI, NEMA / UK, AU, SCHUKO, HW, Univ.	2	11	12.4	0.07	48	24
SD - 2500	12V, 24V, 48V				2	18	20	0.07	42	21
SD - 3500	12V, 24V, 48V				2	18	20	0.08	30	15
SP Series										
SP - 700	12V, 24V, 48V		100-120V, 200-240V	GFCI, NEMA / UK, AU, France SCHUKO, Univ.	6	15.6	21.6	0.11	108	18
SP - 1000	12V, 24V, 48V		100-120V, 200-240V		4	13	17	0.08	80	20
SP - 1500	12V, 24V, 48V		100-120V, 200-240V		4	16.56	20.56	0.10	80	20
SP - 2000	12V, 24V, 48V		100-120V, 200-240V		4	20.96	24.96	0.10	80	20
SP - 3000	12V, 24V, 48V		100-120V, 200-240V	HW / UK, AU, SCHUKO, France, Univ.	2	16.4	18.4	0.09	36	18
SP - 4000	24V, 48V		100-120V, 200-240V	HW	2	20	22	0.09	36	18
SE Series										
SE - 200	12V, 24V		100-120V, 200-240V	GFCI, NEMA / SCHUKO, Univ., UK, AU, France	6	15.6	21.6	0.05	216	36
SE - 400	12V, 24V, 48V		100-120V, 200-240V		6	9	12	0.04	216	36
CX Series	**DC Input**	**AC Input**	**DC Output Voltage, Current**	**Connection Type**	**PCS/CTN**	**N.W./CTN (KGS)**	**G.W./CTN (KGS)**	**CBM /CTN**	**PCS /PLT**	**CARTONS/PLT**
CX - 1215		90-264V	12V, 15A	NEMA, SCHUKO, UK, AU	6	10.8	16.8	0.07	108	18
CX - 1225		90-264V	12V, 25A		6	10.8	16.8	0.07	108	18
CX - 1235		90-264V	12V, 35A		6	12.6	18.6	0.07	108	18
CX - 1250		90-264V	12V, 50A		6	19.2	25.2	0.07	108	18
CX - 1280		90-264V	12V, 80A		6	19.2	25.2	0.07	90	15
CX - 2415		90-264V	24V, 12.5A		6	10.8	16.8	0.07	108	18
CX - 2425		90-264V	24V, 25A		6	10.8	16.8	0.07	108	18
CX - 2440		90-264V	24V, 40A		6	19.2	25.2	0.07	90	15

Socket Type

*The above information is for reference only, subject to change without notice