

HEAVY DUTY

ELECTRICAL CHARGER

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AR-B5C SERIES

Intelligent Charger

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Safety Design



AR-B5C-E

Product Introduction

Intelligent Charger AR-B5C Series is the organic combination of leakage transformer, technology of Silicon-controlled rectifier and Microcomputer Control. This device could optimize Wsa+Pulse charging characteristic curve. As charge voltage of battery increases, charge current decreases automatically. Pulse charge would be performed before gas emissions or in late stage of recharge. On the premise of guarantee adequate battery power, this device would lower greatly internal temperature and reduce gas emissions of battery, prolong the life of battery effectively and raise the charging efficiency eventually.

Applicable to recharge of lead-acid batteries which could be used in :

- Power pallet trucks
- Fork-lift truck
- Lift truck
- Electronic tour bus.



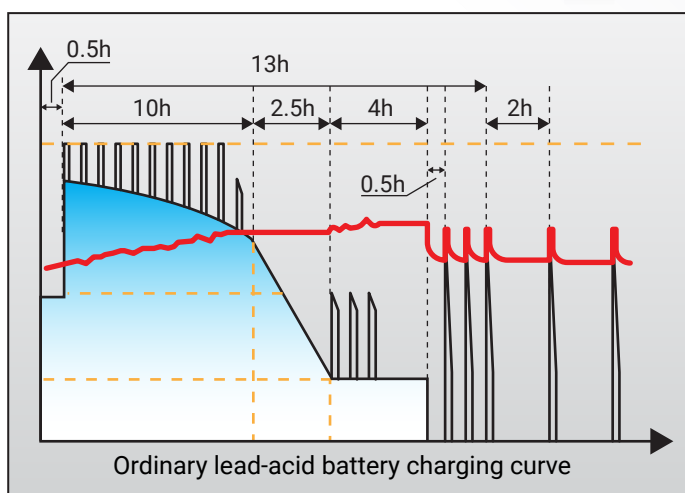
AR-B5C-D



DETAIL SPECIFICATIONS

Technical Features

- The voltage and current double closed-loop framework is applied in the PID control technology. This device can achieve dynamic tracking and automatic adjustment of charge parameters.
- Nixie tube would display charger parameters such as battery voltage, charge current, capacity and recharged time. It could also show the code of charging curve and fault. High-intensity LED Lamp would indicate running state of this charging unit.
- Functions of automatic detection, delaying and soft-start, function of temperature compensation. The voltage of tipping point of gas emission would change with the temperature.
- This device could also record data at the end of recharge for 30 times.
- Protection and alarm functions of open circuit, reverse connection, over load and short circuit breakdown.
- Protection and alarm functions of overheat fault of transformer and module.
- Equalization charge could ensure capacity consistency of battery packs, function of automatic initial charge, function of desulfuration Charge;



Specification/Technical Data

MODEL/TYPE (V/A)	MAIN POWER (V)	INPUT POWER (kVA)	INPUT CURRENT (A)	OUTPUT CURRENT (A)	BATTERY PARAMETERS		SIZE (MM)	WEIGHT (KG)
					V	Ah (8.5h-11h)		
AR-B5C - E24/20	Single Phase 220 (Two-Phase 380 can be customized)	0.75	3.4	20	24	115 - 160	240 x 350 x 260	21.0
AR-B5C - E24/50		1.9	8.5	50	24	290 - 400	240 x 350 x 260	25.5
AR-B5C - E24/80		3.0	13.6	80	24	464 - 640	466 x 361 x 785	40.0
AR-B5C - E36/30		1.7	7.7	30	36	175 - 240	240 x 350 x 260	23.5
AR-B5C - E36/40		2.3	10.2	40	36	230 - 320	240 x 350 x 260	24.5
AR-B5C - E48/25		1.9	8.5	25	48	145 - 200	240 x 350 x 260	24.5
AR-B5C - E48/45		3.4	15.3	45	48	260 - 360	466 x 361 x 785	42
AR-B5C - E48/65		4.9	22.2	65	48	375 - 520	466 x 361 x 785	50
AR-B5C - E48/80		6.0	27.3	80	48	465 - 640	466 x 361 x 785	56
AR-B5C - E72/30		3.4	15.3	30	72	175 - 240	280 x 430 x 310	35.5
AR-B5C - D48/55	380	4.1	6.3	55	48	320 - 440	466 x 361 x 785	62
AR-B5C - D48/65		4.9	7.4	65	48	375 - 520	466 x 361 x 785	65
AR-B5C - D48/80		6.0	9.1	80	48	465 - 640	466 x 361 x 785	68
AR-B5C - D48/100		7.5	11.4	100	48	580 - 800	526 x 360 x 882	86
AR-B5C - D48/120		9.0	13.7	120	48	700 - 960	526 x 360 x 882	95
AR-B5C - D80/65		8.1	12.3	65	80	375 - 520	526 x 360 x 882	87
AR-B5C - D80/70		8.8	13.3	70	80	405 - 560	526 x 360 x 882	87
AR-B5C - D80/80		10.0	15.2	80	80	465 - 640	526 x 360 x 882	89
AR-B5C - D80/100		12.5	19.0	100	80	580 - 800	526 x 360 x 882	95
AR-B5C - D80/120		15.0	22.8	120	80	700 - 960	526 x 360 x 882	107

AR-C7 SERIES

Automatic Charger

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Safety Design

Product Introduction

AR-C7 series automatic charger is an advanced Hi-Tech product with strong functions and smart shape. It is featured with small size, light weight, easy operated, high charging efficiency and high reliability. It combines the high frequency technology with micro-processor controlling technology in one unit to reach the best charging result for the battery, effectively to prolong the battery set's working cycle life, all the charging process is automatically executed according to the program without the operator on duty.

Ideal Charging Equipment For:

- Electric Pallet
- Electric Mover
- Electric Lift
- Electric Bus Car
- Small size electric vehicles.



DETAIL SPECIFICATIONS

Technical Features

- Electric quantity controlling, timing controlling to ensure battery complete charging, auto-shut down after charging complete, no over-charging, no under-charging.
- High brightness LEDs indicating charger's running state.
- Adopting IWUla multi-stage charging style (this charging style is applied for the general lead-acid battery charging).
- Adopting IWUUa multi-stage charging style (this charging style is applied for the free maintenance lead-acid battery charging).
- Nixie tubes indicating battery voltage, charging current, capacity, time etc.
- With auto-checking, time-delay start, soft-start functions.
- With the temperature compensation function for constant voltage point, floating charging point.
- With keeping charging function.
- Balanced charging to ensure the consistency of battery cell capacity.
- Automatic initial charging function, (Only the general lead-acid battery charging).
- With the protection of open circuit, over load, short circuit and over temperature.
- With the function of information enquiring, to enquire past 20 times charging record.
- Memory during power interruption and self starting again.

Specification/Technical Data

MODEL/TYPE (A/V)	RATED INPUT POWER SUPPLY (V) 50-60Hz	RATE CHARGING CURRENT (A)	CHARGER INPUT POWER (KW)	CHARGEABLE BATTERY VOLTAGE (V)	CHANGED BATTERY RANGE (Ah)	SIZE (MM)	WEIGHT (KG)
AR-C7 - 20A/24V	220-240V 50-60Hz	20	0.72	24	130 - 165	200 x 365 x 140	6.6
AR-C7 - 25A/24V		25	0.9	24	165 - 205		
AR-C7 - 30A/24V		30	1.08	24	200 - 250		
AR-C7 - 20A/48V		20	1.44	48	130 - 165		
AR-C7 - 35A/24V		35	1.26	24	230 - 290		
AR-C7 - 40A/24V		40	1.44	24	265 - 330	220 x 405 x 140	8.3
AR-C7 - 50A/24V		50	1.8	24	330 - 415		
AR-C7 - 30A/36V		30	1.62	36	200 - 250		
AR-C7 - 25A/48V		25	1.8	48	165 - 205		
AR-C7 - 30A/48V		30	2.16	48	200 - 250		
AR-C7 - 30A/72V		30	3.24	72	200 - 250	300 x 430 x 180	11

AR-C7A SERIES

Automatic Charger



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Product Introduction

AR-C7A series automatic charger (regulated, a derive from AR-C7 product) is an advanced Hi-Tech product with strong functions and smart shape. It is featured with small size, light weight, easy operated, high charging efficiency and high reliability. It combines the high frequency technology with micro-processor controlling technology in one unit to reach the best charging result for the battery, effectively to prolong the battery set's working cycle life, all the charging process is automatically executed according to the program without the operator on duty.

Ideal Charging Equipment For:

- Electric Pallet
- Electric Mover
- Electric Lift
- Electric Bus Car
- Small size electric vehicles.



DETAIL SPECIFICATIONS

Technical Features

- Electric quantity controlling, timing controlling to ensure battery complete charging, auto-shut down after charging complete, no over-charging, no under-charging.
- High brightness LEDs indicating charger's running state.
- Adopting IWUla multi-stage charging style (this charging style is applied for the general lead-acid battery charging).
- Adopting IWUUa multi-stage charging style (this charging style is applied for the free maintenance lead-acid battery charging).
- Nixie tubes indicating battery voltage, charging current, capacity, time, etc.
- With auto-checking, time-delay start, soft-start functions.
- With the temperature compensation function for constant voltage point, floating charging point.
- With keeping charging function.
- Balanced charging to ensure the consistency of battery cell capacity.
- Automatic initial charging function, (Only the general lead-acid battery charging).
- With the protection of open circuit, over load, short circuit and over temperature.
- With the function of information enquiring, to enquire past 20 times charging record.
- Memory during power interruption and self starting again.

Specification/Technical Data

MODEL/TYPE (A/V)	RATED INPUT POWER SUPPLY (V) 50-60Hz	RATE CHARGING CURRENT (A)	CHARGER INPUT POWER (KW)	CHARGEABLE BATTERY VOLTAGE (V)	CHANGED BATTERY RANGE (Ah)	SIZE (MM)	WEIGHT (KG)
AR-C7A - 20A/24V	200-240V 50-60Hz	7 - 20	0.72	12 - 24	50 - 165	200 x 360 x 140	6.6
AR-C7A - 30A/24V		10 - 30	1.08	12 - 24	70 - 250		
AR-C7A - 35A/24V		12 - 35	1.26	12 - 24	80 - 290		
AR-C7A - 30A/36V		10 - 30	1.62	12 - 36	70 - 250	220 x 405 x 140	8.3
AR-C7A - 30A/48V		10 - 30	2.16	12 - 48	70 - 250		
AR-C7A - 50A/24V		17 - 50	1.8	12 - 24	115 - 415		

AR-C7P SERIES

Lithium Battery Charger

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Safety Design



Product Introduction

AR-C7P series lithium battery charger uses the structure of high frequency charger, upper computer, CAN bus, lithium battery BMS, the upper computer connects the lithium battery and cell power supply module by CAN bus, and monitors the charging state at real time, controls the charging process of the cell power supply module. At the same time, by the interface of RS485, control the output current of each cell charging module, receive the process data from charging module and control the charging process. The upper displays and records the dates of charger and battery at the same time.

The upper computer is built-in different charging curves of lithium batteries, it can be set constant voltage point and parameters flexibly according to different lithium battery charging demands. The upper computer with TFT LCD display can be set charging parameters by touch screen, The friendly man-machine interface is convenient for users to set charging parameters.



DETAIL SPECIFICATIONS

Technical Features

- Using IUa constant current, constant voltage charging method. The charging process parameters can be set and adjusted on the scene.
- The whole charging time. constant voltage time and constant voltage current at the charging end will all be considered to judge the battery is charged or not.
- Display the charging dates such as battery voltage, charging current, volume, time and so on at the real-time, its convenience for users to realize the charging state.
- The cell charging power supply module is combined with high frequency technology and embedded microcomputer control technology, it has the protect functions such as open circuit, over current, overheating protection, the cell module will be quit from the system when encounters a failure.
- The whole charger has software and hardware over voltage protection, has over current protection, has auto-testing, delayed start, soft start, auto shut down after be charged.
- Self start function after power off.

Specification/Technical Data

MODEL	PRODUCT TYPE (V/A/KW)	MODULE NUMBERS	INPUT POWER (KW)	MAX OUTPUT VOLTAGE (V)	CHARGING CURRENT (A)	SIZE (MM)	WEIGHT (KG)
ARC7P SERIES LITHIUM BATTERY CHARGER							
AR-C7P - E30	30/60/2.1	1 - 2	2.1 - 4.2	30	60, 120	530 x 440 x 350	15 - 25
AR-C7P - E60	60/35/2.3	1 - 2	2.3 - 4.6	60	35, 70	530 x 440 x 350	15 - 25
AR-C7P - D60	60/35/2.3	3 - 6	6.3 - 8.4	60	105, 140, 175, 210	530 x 440 x 880	45 - 120
AR-C7P - E100	100/20/2.2	1 - 2	2.2 - 4.4	100	20, 40	530 x 440 x 350	15 - 25
AR-C7P - D100	100/20/2.2	3 - 6	6.6 - 8.8	100	60, 80, 100, 120	530 x 440 x 880	45 - 120
ARC7PS SERIES LITHIUM BATTERY CHARGER (WITH CHARGING GUN)							
AR-C7PS - D30	30/60/2.1	3	6.3	30	180	825 x 670 x 1460	145
AR-C7PS - D60	60/35/2.3	3 - 6	6.9 - 13.8	60	105, 140, 175, 200		165 - 185
AR-C7PS - D100	100/20/2.2	3 - 6	6.6 - 13.2	100	60, 80, 100, 120		165 - 185
AR-C7PS - D100	100/20/2.2	7 - 9	15.4 - 19.8	100	140, 160, 180		185 - 205

AR-C7PL SERIES

Lithium Battery Charger

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Product Introduction

AR-C7PL series Lithium Battery charger adopts modular structure design, connect in parallel with 1-2-3 pieces charging power module to expand the output charge current. Built-in host computer, control the output current of each charging power module; Real time monitor the charger status to control the entire charging process; Through communication of CAN bus and battery BMS to meet the requirements of lithium battery charge control, record charger and lithium battery-related parameters in charging process.

Ideal Charging Equipment For:

- Electric forklift (lithium batteries)
- Pallet truck
- AGV car
- Other electric vehicle's charging



DETAIL SPECIFICATIONS

Technical Features

- The charger is modular design, can be parallel output with multiple charging power modules, with simple and reliable structure. Use constant current and limit voltage charging method.
- By judging the total time of charging, constant pressure time and constant voltage end current and others to determine the battery is enough or not.
- The charger adopts touch screen to set parameters, has function such as data communication, breakdown memory, state memory and so on. Displays the battery voltage, charge current, charge capacity, charge time and other charging process data and operating status in real-time.
- Charging power module itself has open circuit, over-current, overheating, ignition and other fault protection and control functions, it will exit the system operation automatically once breakdown.

Specification/Technical Data

MODEL/TYPE (V/A)	INPUT POWER (KVA)	INPUT CURRENT (AC A)	OUTPUT CURRENT (DC A)	OUTPUT VOLTAGE (V)	SIZE (MM)	WEIGHT (KG)
100V/70A	9.3	14.2	70	100	500 x 300 x 280	20
60V/120A	9.6	14.6	120	60	500 x 300 x 280	20
100V/140A	18.6	28.4	140	100	650 x 500 x 1030	95
60V/200A	16.0	24.3	200	60	650 x 500 x 1030	95
100V/200A	26.6	40.5	200	100	650 x 500 x 1030	120

AR-C7SI SERIES

Lithium Battery Charger

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Product Introduction

AR-C7SI lithium battery charger connects in parallel with a number of high-performance switching rectifier modules to expand a larger charge current output. Single module adopts DSP digital control, resonant soft switch, active PFC technology, with characters like high power density, high power factor, small harmonic, high efficiency, and small size etc. **C7C7SI** lithium battery charger controls various modules in system through host computer; monitors the state of charger in real-time, controls the entire charging process, records charger and lithium battery related parameters in the charging process.

Ideal Charging Equipment For:

- Electric forklift (lithium batteries)
- Pallet truck
- AGV car
- Other electric vehicle's charging



DETAIL SPECIFICATIONS

Technical Features

- **High efficiency & High power density:** reduce energy consumption, meet energy-saving and emission reduction requirements, save electricity for customers.
- **DSP digital control:** all digital control, higher environmental stability, and reliability, easy expansion.
- **Low input harmonics:** reduce pollution to power grid, higher power grid capacity.
- **Wide input voltage & operating temperature range:** allow large voltage fluctuation, suitable for most of harsh working environment.
- **Perfect fault detection prompt:** abundant fault detection function, user-friendly maintenance.
- **Novel man-machine interface:** touch screen can set parameters online, real-time display, record and storage charge status and charging process.

Specification/Technical Data

PRODUCT ITEM (IP21/IP54)	AR-C7SI / AR-C7SF											
CHARGER SPECIFICATION	ARC7SI/SF -D100/100	ARC7SI/SF -D100/200	ARC7SI/SF -D100/300	ARC7SI/SF -D100/400	ARC7SI/SF -D100/100	ARC7SI/SF -D100/200	ARC7SI/SF -D100/300	ARC7SI/SF -D100/400	ARC7SI/SF -D100/75	ARC7SI/SF -D100/150	ARC7SI/SF -D100/250	ARC7SI/SF -D100/300
Rated Input Voltage Ue (Vac)	380	380	380	380	380	380	380	380	220	220	220	220
Input Power (KVA)	10.6	21.3	31.9	42.6	6.4	12.8	19.1	25.5	2.5	4.9	7.4	9.9
Maximum Input Current (Aac)	16.2	32.3	48.5	64.7	9.7	19.4	29.1	38.8	11.2	22.5	11.3	15.0
Power Factor (PF)	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Current Distortion (THD)	≤7%	≤7%	≤7%	≤7%	≤7%	≤7%	≤7%	≤7%	≤7%	≤7%	≤7%	≤7%
Machine's Efficiency (Full Load)	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.91	0.91	0.91	0.91
Rated Output Current (Ade)	100	200	300	400	100	200	300	400	75	150	225	300
Maximum Output Voltage (Vdc)	100	100	100	100	60	60	60	60	30	30	30	30
Output Voltage Range (Vdc)	60-100	60-100	60-100	60-100	30-60	30-60	30-60	30-60	21-30	21-30	21-30	21-30
Voltage Regulation Accuracy	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%
Steady Current Accuracy	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%
Operating Ambient temperature (C)	-20°C ~ 45°C											
IP21 Dimensions (MM)	300x360x600		770x550x1026		300x360x600		770x550x1026		300x360x600		770x550x1026	
IP21 Net Weight (KG)	40	130	140	150	40	130	140	150	35	38	85	88
IP54 Dimensions (MM)	750x550x1200		800x685x1800		750x550x1200		800x685x1800					
IP54 Net Weight (KG)	100	110	150	160	100	110	150	160				

AR-Z08 SERIES

Intelligent Charger

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Safety Design



AR-Z108-LL

Product Introduction

AR-Z08 Series intelligent Charger uses high-performance embedded charging control unit, which the output charging current and charging voltage can meet control precision requirements of kinds of charging curve. Ensure the best charging effect for applications of various batteries. With industrial grade 4.3 inch color touch screen, can set the charging parameters online; display and monitor the parameters and status timely in charging process, which convenient for users to know the charging process at any time. Built-in multiple default charging curves, meet different batteries charging process requirements, use widely.

AR-Z08 Series provide communication interface and protection output interface, easy to control the host computer of charger and system integration chain. Apply to all kind of acidic, alkaline, and lithium batteries' charging.



AR-Z308

DETAIL SPECIFICATIONS

Technical Features

- **Record charge data:** built-in EEPROM to record a single charge process data, read through the LCD screen. External SD card to record the history charging data (charging curve), read through the PC, when loss of power, protect the record data automatically.
- **Host computer communication:** provide Modbus communication protocol interface to communicate with the host computer.
- **Start mode:** manual start, timing start, forced start (OV) functions.
- **Perfect protection:** battery reverse or no connect, the charger overheating, overload or phase-lack protection, output overvoltage, battery off protection. Achieve charging process equipment protection and personnel safety guard.
- **Rich optional function:** control or alarm signal contact output; wifi start and stop, record read; remote 485 monitoring function.

Specification/Technical Data

MODEL	INPUT POWER	OUTPUT POWER (KW)	MAX INPUT CURRENT (AC A)	OUTPUT CURRENT (DC A)	OUTPUT VOLTAGE (V) OR RECHARGEABLE BATTERY SPECIFICATION (V/Ah)	SIZE (MM)	WEIGHT (KG)
AR-Z08-LL (LITHIUM BATTERY CHARGING)							
AR-Z108-LL 60/100	Three Phase 380V/50Hz	6.0	13.0	100	60	680 x 550 x 1100	105
AR-Z108-LL 60/150		90	19.5	150	60	680 x 550 x 1100	200
AR-Z108-LL 60/200		12.0	26.0	200	60	680 x 550 x 1400	210
AR-Z108-LL 100/160		16.0	34.7	160	100	680 x 550 x 1400	210
AR-Z108-LL 100/180		18.0	39.1	180	100	680 x 550 x 1400	230
AR-Z108-LL 100/200		20.0	43.4	200	100	680 x 550 x 1400	210
AR-Z08-PP (LEAD-ACID BATTERY CHARGING)							
AR-Z208-PP 165/80	Three Phase 380V/50Hz	13.2x2	52.1	80/Road	120/(250-600)	850 x 600 x 1550	440
AR-Z208-PP 330/80		26.4x2	95.5	80/Road	220/(250-600)	850 x 600 x 1550	450
AR-Z308-125A160V		20	38	Channel 1 & 2 : 0 - 30 Channel 3 : 0 - 65	160	850 x 500 x 1600	323

AR-CF5 SERIES

Automatic Charger/Discharger



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Safety Design

Product Introduction

AR-CF5 series Automatic Charger/Discharger could control the charge and discharge processes through the application of single chip microcomputer. This charging unit could monitor and display in real time the whole process of charge and discharge through the use of industrial color touch screen, integrating operation modes of charge, discharge and its circulation. Its advantages are as follows: novel human interface design, multiple charge and discharge functions, user-friendly control, high degree of automation, data recording function and complete protection function during charge and discharge process.

Operating Mode

This device could support several operating modes, including charge mode, discharge mode and circulation mode of charge and discharge. Parameters such as current, voltage and time maintained for every stage could be set according to the battery maintenance technology.

1. Charge mode

Total four charge modes could be chosen, as follows:

- Charge mode of constant current, constant voltage, low constant current (IUla).
- Charge mode of constant current, constant voltage (IUa).
- Constant current, constant voltage, float charge mode (IUUa).
- Initial charge mode (IIa).

2. Discharge mode

Discharge mode would be performed through the method of constant current control. In the discharge process, discharge current would be constant. When discharging large-power loaded resistor, this would not cause pollution to the grid.

3. Circulation Mode of Charge and Discharge

Circulation mode would combine together charge and discharge process, achieving the automatic transfer between these two processes. Charge and discharge cycle times and its time intervals could be set based on the actual situation, which would provide much convenience to the maintenance of batteries.

DETAIL SPECIFICATIONS

Technical Features

- Through the application of industrial color touch screen, this device could not only display the charge & discharge parameters, its operation status and fault information, but monitor its working curve in real time. Parameters of each point in the curve such as charge current, charge voltage, charge capacity & charge time could be readable.
- Function of automatic switch. Referring to the battery voltage, this device could automatically identify and switch the secondary tap position of main transformer and shift to the corresponding tap position of large-power loaded resistor, achieving the function of automatic switch.
- Referring to the charge & discharge process and parameters of batteries, Users could set ahead of time not only corresponding charge curve, but curve parameters at each stage. Parameters could also be set and modified online in the charge and discharge process. This charger would complete the whole process automatically according to the selected parameters.
- The parameters set by users would be recorded persistently. The data would not be lost if and when the power is terminated.
- Phase sequence would not be required for power grid. The three phase input, A & B & C could be randomly connected.
- Function of start-up delay, soft start-up and soft shutdown.
- Fault protection function, such as open circuit, battery reversal, overcurrent, overvoltage, overheating, lack of equal protection function and warning function.
- Pause function. This device could suspend the charge & discharge process. After restart, this device would recover to the previous status. Make sure the charge & discharge process would continue to run.
- Reset Function. Make sure this system would back to the normal situation.
- Power failure protection function, When turned on or when the power is reset, this device would automatically recover to the previous status, achieving the goal of unmanned safe guarding.
- In the charge and discharge process, this device would shutdown automatically if and when battery connecting wire falls off.
- Function of recording and sory chee & recharge process data and charge curve. This device could store the charge information for more than 3000 times. SD card would automatically record the details of parameter changes in every charge and discharge process. Data stored in SD card could be printed out.

Specification/Technical Data

MODEL/TYPE (A/V)	RATED INPUT POWER (V) 50Hz	INPUT CURRENT (AC A)	CHARGE & DISCHARGE CURRENT (DC A)	CHARGE VOLTAGE (V)	POWER OUTPUT (KW)	BATTERY PACKS (V)	SIZE (MM)	WEIGHT (KG)
AR-CF5 - 65/165	Three Phase 380V/50Hz	28	0 - 65	0 - 165	10.8	24 - 120	900 x 595x 1751	285
AR-CF5 - 80/165		35	0 - 80	0 - 165	13.2	24 - 120		330
AR-CF5 - 100/165		44	0 - 100	0 - 165	16.5	24 - 120		362
AR-CF5 - 65/210		34	0 - 65	0 - 210	13.7	24 - 144		330
AR-CF5 - 80/210		42	0 - 80	0 - 210	16.8	24 - 144		345
AR-CF5 - 100/210		53	0 - 100	0 - 210	21.0	24 - 144		390

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