

Green solution provider

Max Battery Life
& Performance
Min Energy Use
& Carbon Emission



Creativity & Innovation

Battery Quick charger & Regenerator (BQR)

BQR is a revolutionary battery quick charger, designed Negative Pulse-Burp charging technology

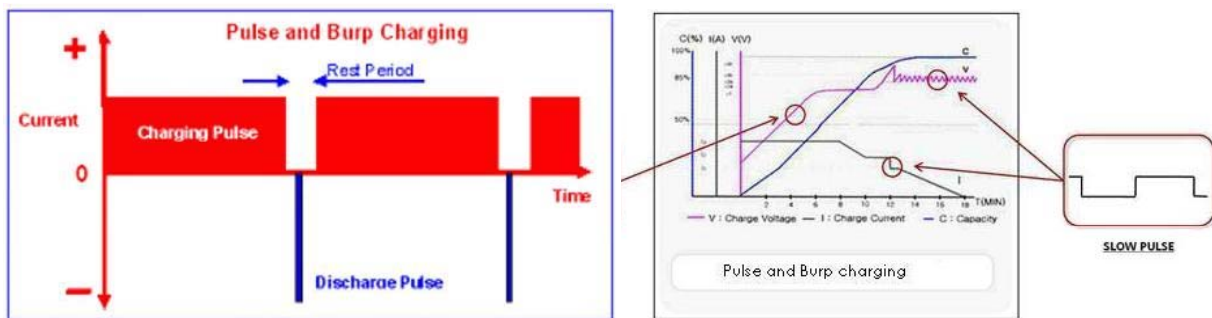
- Maximizes battery life, reduces water consumption and the temperature rise of the battery
- Battery quick charge (**< 1 hour at 85% charging**)
- Embedded with RS-232, 485 communication port
- Floating charge (temperature compensated)
- Reverse polarity protection
- Over heating sensor
- Applies for Lead Acid batteries (GEL, Deep cycle, SLA, VRLA, Spiral, AGM)



Standard Production Specification

DC Voltage : DC54V(customizable for 12V/24V/48V/60V/72V/125V/ 220V/300V)
 Output Capacity: 0A ~100A (standard), 30~3,000A(option)

Charging technology and Algorithm



Specification

Voltage	Output Current				Dimension (W*H*D)mm	Weight (KG)
	50A	100A	150A	200A		
DC 12V	-	BQR312100	BQR312150	BQR312200	280 ×500 ×550 (Standard) Customizing (Option)	14~60kg
DC 24V	BQR224050	BQR224050	BQR324150	-		
DC 48V	BQR248050	BQR348100	-	-		
DC 60V	BQR260050	BQR360100	-	-		
DC 72V	BQR272050	BQR372100	-	-		
DC110V	BQR211050	BQR311100	-	-		

High Frequency Rectifier

Features

- High Frequency method
- Box structure
- Micro-sized, Light weight, Noise free
- Large screen LCD applied



Main functions and quality

- Ultra-precision power supply device
- IGBT-applied high-frequency method
- Ultra light and micro-sized with the size of only 1/10 of existing rectifier
- 100% digitally controlled
- Equipped with various protection devices and control circuits
- Over 90% efficiency, over 99% high power factor
- Ultra-precision constant voltage - $\pm 0.2\%$
- Embedded with RS-232, 422, 485 communication port
- All types of configuration can be made from the control panel (MIMIC).
- Compared with existing rectifiers, it is affordable. It is granted domestic patents and has passed nationally certified development tests.

EV-CAR Charging Systems



Standard Production Specification

- DC Voltage : DC 110V(customizable for 12V/24V/48V/60V/72V/125V/ 220V/300V)
- Output Capacity: **30A ~5,000A** (parallel operating method for 200A or above)

Specification

Specification	By AC Input Voltage				Dimension (W*H*D)	Weight (KG)
	1 ϕ 220V	3 ϕ 220V	3 ϕ 380V	3 ϕ 440V		
DC110V 30A	FR-122030	FR-322030	FR-338030	FR-344030	19"-4U-500mm	20
DC110V 50A	FR-122050	FR-322050	FR-338050	FR-344050	19"-5U-500mm	25
DC110V 75A	FR-122075	FR-322075	FR-338075	FR-344075	19"-5U-600mm	35
DC110V 100A	FR-122100	FR-322100	FR-338100	FR-344100	19"-6U-600mm	40
DC110V 150A	FR-122150	FR-322150	FR-338150	FR-344150	19"-6U-650mm	58
DC110V 200A	FR-122200	FR-322200	FR-338200	FR-344200	19"-7U-650mm	70
DC 400V 125A	EV-CAR charging systems 50Kw, CAN-communication, Toyota, Hyundai application					

Specification of High Frequency Rectifier

Classification		Description						
Technology Standard		KSC 4402, NEMA PE5, ESB157, IEC 146, IEC 623						
Operating Height		1,000m or below from the sea level						
Ambient Temp.	Operation	0°C ~ 50°C						
	Storage	-20°C ~ 80°C						
Relative Humidity		30% ~ 90%						
Place to Install		Outdoor						
Input	Phase	1-phase, 3-phase						
	Frequency	47Hz ~ 63Hz						
	Voltage	220V±15%	380V±15%	400V±15%	400V±15%			
Output	Voltage	DC 110V(24V,48V,60V,72V,125V,220V,250V,Others)						
	Current	30A	50A	75A	100A	150A	200A	Others
	Voltage adjust	-30% ~ +10% of rated voltage						
	Voltage altering	within 0.1%	input voltage changes in the range of ±15%					
	Voltage altering	within 0.1%	load changes in the range of 10%~100%					
	Current Limit	110% of rated current						
Efficiency and Power Factor		Efficiency: > 92% , Power Factor: > 99%						
Ripple Rate		< 1% p-p						
Feature of Response		< 25m/s						
Audible noise		< 55dB (based on FAN noise)						
Feature of DC Spark		Within 1V						
Insulation Resistance		500V test voltage 5MΩ or above						
Impulse Surge		6KV (1.2x50μs), 3KA (8x20μs), 2,000V for one minute						
Cooling Method		Forced air-cooling (automatic temperature adjusting)						
Painting		40μm or above						
Control Method		IGBT(Insulated Gate Bipolar Transistor) Control						
Panel Protection Grade		IP21(Standard), IP54(Option)						
Standard Weight (kg)		20	25	35	45	65	75	-

Intelligent Battery charger

HF/PFC On board Charger

- Applicable to lithium & lead acid battery chargers



It features light weight, small volume, stable performance, high efficiency and reliable security etc., It can be switched automatically between the floating and balancing charging and also has the protection functions of reverse connection, output short-circuit and overload .

The charger is widely used for battery-charging cycles in electric vehicles such as electric forklift, golf cars, electric trucks, electric tour bus, electric yacht, cleaning machines, or Uninterruptible Power Supply (UPS), solar energy, wind power dynamo and electric communication system on the railway etc.

GENERAL SPECIFICATIONS

▪ AC Input Voltage Range	AC85V~AC265V	▪ Storage Temperature	~+ (~+)
▪ AC Input Frequency	45~65 Hz	▪ Charging Control	Via CAN bus or ENABLE
▪ AC Power Factor	≥0.98	PROTECTION	
▪ Full Load Efficiency	≥93%	▪ Input Under · Over Voltage	
▪ Mechanical Shock & Vibration Resistance Level	Conformance to SAEJ1378 Standard	▪ Output Over Voltage	
▪ Environmental Enclosure	IP46	▪ Output Current Limit	
▪ Operating Temperature	~+ (~+)	▪ Output Short protection	
▪ Storage Temperature	~+ (~+)	▪ Thermal Self-Protection	
▪ Charging Control	Via CAN bus or ENABLE	▪ Reverse polarity protection	

SPECIFICATION

Vout Max	1.5Kw	2Kw	3Kw	4Kw	6Kw	8Kw	Remarks
34.6V	40A	x	80A	x	x	x	
51.1V	33A	x	66A	x	x	x	
66V	25A	35A	50A	70A	105A	140A	
82.6V	20A	30A	40A	60A	90A	120A	
96.2V	16A	25A	32A	50A	75A	100A	
112V	14A	21A	28A	42A	63A	84A	
130V	12A	18A	24A	36A	54A	72A	
144.7V	10A	16A	20A	32A	48A	64A	
168V	x	15A	x	30A	x	x	
192V	8A	12A	16A	24A	45A	48A	
208V	8A	11A	16A	22A	36A	44A	
233.3V	x	10A	x	20A	x	x	
243V	6.2A	9A	12.4	18A	33A	36A	
258V	5A	9A	10A	18A	27A	36A	
289.5V	x	8A	x	16A	24A	32A	
337V	x	7.2A	x	14.4A	21.6A	28A	
389V	x	6A	x	12A	18A	24A	
417V	x	5.5A	x	11A	16.5A	22A	

Tablets Power Charger (Model: M700)



Battery Type: Lithium-Ion
 Dimension: 150.5*95*23(mm)
 Weight: 403g
 Color: Black, White
 Capacity: 13200mAh/3.7V
 Input: DC 12V/2A
 Output: DC 12V/2A, 9V/2A,
 USB2-5V/2A, USB1-5V/1A
 Charging time: around 4.5hours
 Working Temperature: -10°C ~50°C
 Self consumption: <200uA

Accessory: 12V/2A adapter and car charger, Specialized tie line for Samsung Galaxy Tab, Charging cable for Motorola XOOM

Application: compatible with iPad, Samsung Galaxy Tab, Motorola XOOM, HT Touch Pad and other tablets; meanwhile match iPhone, iPod series; Blackberry, Samsung, HTC and other smart phones and digital devices; can charge multi-devices simultaneously, more powerful and convenient.

iPad Power Charger (Model: 500BD)



Battery Type: Lithium-polymer
 Dimension: 115*90*16(mm)
 Weight: 191.5g
 Capacity: 6600mAh
 Rated input: Micro USB 5V/0.8A
 Rated output: USB1 5V/2A USB2 5V/1A
 charging time: About 8 hours
 Compatibility: iPad, iPhone, iPod, BlackBerry,
 SAMSUNG Galaxy Tab and other digital devices

Laptop Power Charger (Model: M500)



Battery type: Lithium-ion battery
 Color: White, Black
 Dimension: 95*82*23(mm)
 Weight: 237g
 Capacity: 8800mAh
 Rated input: DC 5V/2A
 Rated output: USB 5V/2A
 charging time: About 7 hours
 Compatibility: iPad, iPhone, iPod, SAMSUNG
 Galaxy Tab and other digital devices
 Standby time: Up to 480H
 Wireless internet access: Up to 4H
 Audio playback: Up to 13H
 Video playback: Up to 4.5H

Solar Power Charger (Model: S600)



Battery type: Lithium-ion battery
 Color: White
 Dimension: 167*71*13 (mm)
 Weight: 98g
 Capacity: 1300mAh
 Rated input: Mini USB 5V/0.6A
 Rated output: USB 5V/0.5A
 charging time: About 3 hours
 Compatibility: iPhone, BlackBerry, NOKIA, MOTO, PSP, PDA, etc.

Features

1. Special curved design.
2. 1300mAh high capacity green solar power charger, plug and play.
3. LED lighting function.
4. Support to charge devices in recharging mode.
5. Compatible with cell phone, PSP, etc.

Solar Power Charger (Model: S400)



Battery type: Lithium-ion battery
 Color: Black
 Dimension: 102*64*15 (mm)
 Weight: 102g
 Capacity: 2000mAh
 Rated input: 5V/0.7A
 Rated output: USB1 5V/0.5A USB2 5.5V/0.5A
 charging time: About 4 hours
 Compatibility: iPhone, BlackBerry, NOKIA, MOTO, PSP, PDA and other digital devices

External Solar Charger case for iphone4/4S(Model M400D7S)



Battery Type: lithium ion
 Color: Black
 Dimension : 116.4x62.8x18.4mm
 Weight: 85g
 Capacity : 1600mAh
 Micro usb input: 5V/800ma
 Rated input: micro usb 5V 800ma
 Rated output: 5V 1A
 Accessory: N/A

GLOBAL POWER is

An emerging player in energy solutions & green technology field.

Lithium Batteries

- ▶ Lithium battery for EV
- ▶ Energy Storage System(ESS)
- ▶ Hybrid ESS
- ▶ Module for EV kits
- ▶ Module for HEV kits

Power Design

- ▶ High efficiency rectifier
- ▶ On-board battery charger
- ▶ Battery quick regenerator
- ▶ Solar Inverter
- ▶ BMS / SMPS

Others

- ▶ Thermoelectric generator
- ▶ Battery plant & design consulting
- ▶ Material : active material, electrode
- ▶ Industry OEM Battery Solution [Developer Kit]

