Perfect fit! The charging zone that you never had before! Wireless power supply by



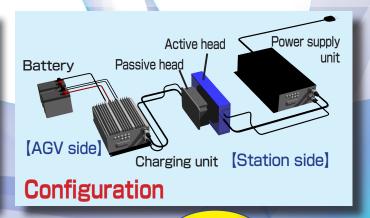
Wireless charging system 600W series





Various lead, Li battery compatible!! 24V · 48V riety Corresponds to two types of communication distance!!



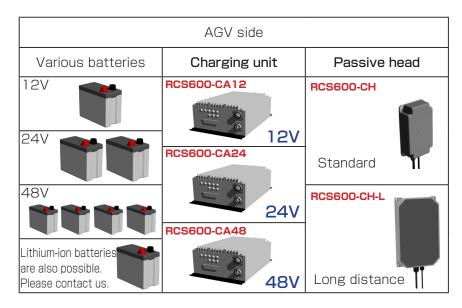


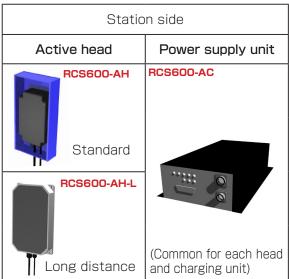
600W Product Features

Check!

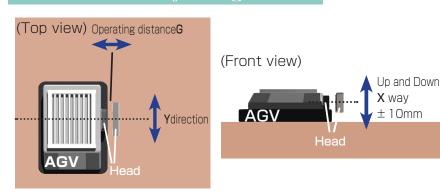
- · Battery friendly CC/CV (constant current/ constant voltage) method is adopted.
- During charging, various errors can be displayed on the LED and output to the outside (communication function).
- · Recharge function: While both heads are facing each other, recharging is started when the voltage drops to $24V \pm 0.5V$ after completion of charge.
- · Over current, over voltage protection function: Charging stops when it exceeds a certain level.
- · Monitor the battery temperature (thermistor monitoring function) and stops charging when the temperature reaches a certain level or higher. Check!
- · Supports single-phase AC90-220V as rated input voltage!!
- · Charging voltage and charging current can be set. (Please contact us for more information)
- The long distance head can be installed adjacent to metal. (Please contact us for more information)

in any combination!





Center offset and operating distance



	(Standard head)	head)
G	$0\sim 20$ mm	20 ~ 40mm
Χ	± 10mm	± 10mm
Υ	± 15mm	± 20mm

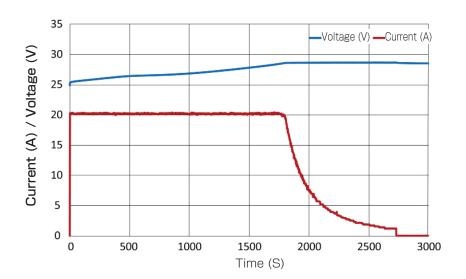
^{*} The offset of each XY of the long distance specification shall be 20mm in total.

CC · CV Charging Graph

Constant current/constant voltage (CC · CV) charging control function enables optimum charging for battery.

[Example : SCIB SIP24-23 50% (11Ah)

Charging characteristics after discharge / CC current20A CV voltage28.6V]



 $\mbox{\ensuremath{\%}}$ Charging to a 24V lead battery is the basic specification, but please contact us for application using lithium ion batteries.

We have the past result to charge to the lithium ion capacitor.

About charge control

When the battery is in the discharging state (when the charge is low), the constant current control (CC) is performed. And the charging current is reduced so as not to exceed the set voltage. When the charging current drops to 1.0A (\pm 0.5A), the battery is considered to be fully charged and charging is terminated.

	Factory setting	adjustable range of
	ractory setting	charging voltage/current
12V	voltage: 14.4V ± 0.5V	voltage: 12V ~ 15V
	current:34A ± 0.5A	current: 10A~34A
24V	voltage : 28.8V ± 0.5V	voltage : 24V ~ 30V
	current:20A ± 0.5A	current: 10A ~ 20A
48V	voltage : 57.6V ± 0.5V	voltage : 48V ~ 60V
	current: 10A ± 0.5A	current: 5A ~ 10A

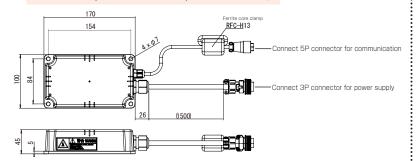
The setting is available at the time of shipment. In addition, a separate setting writing cable is available as an option, so please contact us for details.

Specification

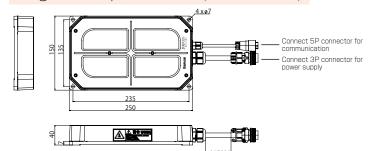
AGV side

Station side

Standard passive head (RCS600-CH)



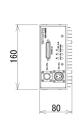
Long distance passive head (RCS600-CH-L)

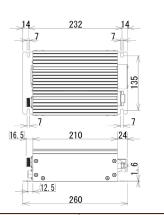


Туре		RCS600-CH (Standard)	RCS600-CH-L (Long distance)	
Operating distance		0 ~ 20mm	20~40mm	
Offset (Standard)		\pm 10 mm in the X axis direction and \pm 15 mm in the Y axis direction (For details, see left.)		
Offset (Long distance)		\pm 10mm in X axis direction. \pm 20mm in Y axis direction. However, the total displacement of the XY axes can be up to 20mm. (For details, see left.)		
Operating temperature		0+50℃		
Protection class		IP65 (Indoor type)	IP6X(Indoor type)	
Housing		PPS, aluminum		
Material	Output cable	φ 8.6 2.5mm ² x3 PUR		
	Signal cable	φ 5.6 0.3mm ² x4 PUR		
Weight (Standard)		2.0kg (Including cable connector / In case of above Type 1.5m)		
Weight (Long distance)		3.1g (Including cable connector / In case of above Type 1.5m)		
Accessories		Ferrite core clamp, Central positioning label		

^{*} Please contact us for flexible cables and cable length extensions.

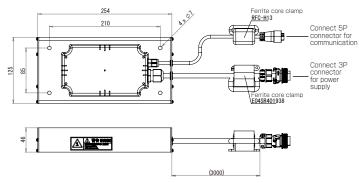
Charging unit



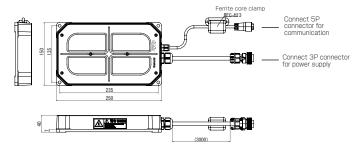


Type	RCS600-CA12	RCS600-CA24	RCS600-CA48
Output voltage	≦ 15V	≦ 30V	≦ 60V
Output current	≦ 34A	≦ 20A	≦ 10A
External input	Starting charging signal		
External output	Ready, Charge, End, Error, E1 \sim E3		
Operating temperature	0+50°C		
Protection class	IP40 (Indoor type)		
Weight	2.8kg	2.7kg	2.7kg
Accessories	Thermistor, Dsub25P start signal ON connector		

Standard active head (RCS600-AH)



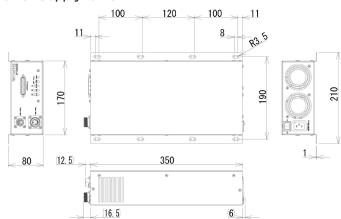
Long distance active head (RCS600-AH-L)



Туре		RCS600-AH (Standard)	RCS600-AH-L (Long distance)	
Operating temperature		0+50°C		
Protection class		IP65 (Indoor type)	IP6X(Indoor type)	
Connection		Supply: Connected to the Charging unit at the (male) 3-pin round, communication: Connected to the Charging unit at the (male) 5-pin round		
	Housing	PPS, aluminum		
Material	Output cable	φ 8.6 2.5mm ² x3 PUR		
	Signal cable	ϕ 5.6 0.3mm ² x4 PUR		
Weight (Standard)		3.0kg (Including cable connector / In case of above Type3m)		
Weight (Long distance)		3.3kg (Including cable connector / In case of above Type3m)		
Accessories		Ferrite core clamp, Central positioning label		

^{*} Please contact us for flexible cables and cable length extensions.

Power Supply unit



Type		RCS600-AC	
Rated input voltage/Supply voltage		AC100V · 200V / AC90V ~ 220V Single-phase50/60Hz	
Current consumption		9A (At 100V), 4.5A (At 200V)	
External output		Power, Ready, Charge, End, Error, E1 ~ E3	
Operating temperature		0+50℃	
Protection class		IP20 (Indoor type)	
	Feeding connector	Round 3-pin	
Connection	Communication connector	Round 5-pin	
	Output signal	D-sub 25-pin	
	Power	3P inlet	
Weight		3.3kg	
Accessories		Power cable with ferrite core clamp	

B&Plus has a lot of product lineup to choose from! Small to large capacity!

It's hard to pick but with B&PLUS you can simulation charging! (It's free.) Attach a current logger to your AGV and measure the current by consumption.

~ Steps to submit charging simulation ~

1. Simulation confirmation items

- ① Check Battery model and battery capacity
- @ Confirm running/stopping time $\mbox{\em \%}$ Running time/stop time per cycle
- 3 Confirm consumption current
 - Running, stopping and resting time and each current consumptions.
- 4 Can you charge while paused? Does it stop without charging?
- (5) Operating hours per day

Confirm the operation status of AGV at the time of starting/ending/lunch break/immediate and whole day

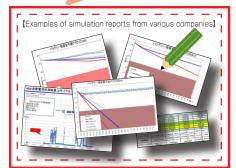
2. AGV current consumption measurement

We will measure the current consumption using the current measurement logger with the AGV under consideration.



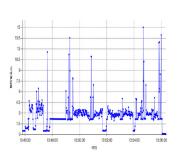


Based on the simulation results, we will propose the most appropriate charging system from our lineup!



3.Simulation report

Report the results immediately with our special simulation software! A report can be submitted in about one week!



Current consumption graph

[Option]

- ◆ Dsub25P connector cable for I/O signal(Type code: RCS600-0P003)
- ◆ Power cable (Model: AYCS-212 BK)
- ◆ Various extension cables(Type code: Contact us for details)
- ◆ Battery connection cable

(Type code: For M6 terminal: RCS-CBL-M6-0_/For M8 terminal: RCS-CBL-M8-0_ ** Each is 1 m and 2 m each. _ contains 1 or 2, which represents the cable length.)

◆ Output setting / 600W writing cable set (Type code : RCS600-0P004)

[Additional purchase model]

- ◆ Additional Dsub25P-Connector for start signal ON (Type code: RCS600-0P001)
- ◆ Additional thermistor (Type code: RCS600-0P002(Cable 1.5m), RCS600-0P002EXT(Cable 2.5m)
- ◆ Additional ferrite core clamp (Type code: E04SR401938)

A Note on Using 600W

• This product, which is one of those high frequency utilization equipment of Radio Law.

In the case of useing in Japan, please apply for a permission application for high frequency utilization equipment permission to Ministry of Internal Affairs and Communications.

In the case of using the product out side Japan, please take appropriate action after confirming by yourself the standards and regulations to which the customer's system should conform.

• For the control communication device that is installed in the product, there is no need for (diploma) radio station authorization of the Minister as it corresponds to "a weak radio station (weak radio equipment)" to.

However, please be careful on the occasion of the operation because it may affect medical equipment and electronic equipment (such as pacemakers).



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My name is Dr. Wireless Cat! How was the 600W charging system introduced this time? B&Plus can meet your needs. I introduced an optional cable, but this is also a product that was able to respond to customer's consultation. I wish I had something like this.

Please feel free to contact us for consultation!

Wireless Power Supply by **B&PLUS K.K.**

Mail: b-plus-usa@b-plus-kk.com
Web: http://www.b-plus-kk.com

^{*} Info may change the mention contents such as specifications without a notice.

Thank you for understanding