Wireless power supply by



AGV × B&PLUS

Wireless feeding,

B&Plus will solves problems of the AGV setting.

• Reduce the AGV battery charging time.

It takes time and effort to replace batteries

Want to use battery power only for power of AGV driving.

• Able to set the address of the AGV more freely



Power Charging (RCS) What you can do with the series



8bit Identification What you can do with the series



Power Supply (RVT) What you can do with the series



Able to choose the AGV battery automatic charging system.

	-				20
Compatible battery	30W (14.4V/2A) Lead battery only	120W (14.8V / 8.5A) Lead battery only	120W (29.0V / 4.3A) Lead battery only	210W (30V/7A) Lead battery only	600W(30V/20A) Lead battery lithium-ion battery
Type code	RVT-210-502-PU RVE-210-2-PU	RVT-433-508-PU RVE-433-2-PU	RVT-433-404-PU RVE-433-2-PU	RCS210-PB24 RCS240PH RCS240AH RCS240-AC1	RCS600-CA24 RCS600-CH RCS600-AH RCS600-AC
Dimension	80x80x30	110x160x75	110x160x75	Charging unit: 188x230x50.5 Head:100x140x40 Power Supply unit: 210x300x80	Charging unit 160x260x80 Charging head:100x174x45 Active head:125x254x46 Power Supply unit: 210x350x80
Operating distance	410mm	010mm	010mm	010mm	020mm
		* Some produc	cts may to need have a r	permission for using high	frequency in the facilities

It will perform optimum battery charging

30Ah (5 HR) Battery discharge about 50%



Battery replacement operation

1 hour unit price 3,000 JPY

Battery replacement operation time Twice a day, a 15 minutes per each

Operate for one year 240 days

1,500 JPY x 240 = **360,000 JPY**

Great deals!



Traditionally, AGV battery replacement was exchanged by production line workers and maintenance, so the replacement timing was manually exchanged between work intervals. But when AGV battery is charged at its stopping position, and AGV running time has greatly increased. Also it can automatically charge fully by lunch break or night time charging, and can also reduce the trouble of replacing batteries. Please contact us for simple simulation requests. We will make an optimal proposal from our various lineup.

Describe the wireless power supply operation flow of the 210 W

charging system.

① When the power supply unit is turned on, the system is in standby mode (intermittent oscillation). Rise time is about 5 seconds.

2 When the passive head (receiving side) is in the power transmission range of the active head (transmitting side), the communication device of the active and passive head section starts communication and starts power transmission. (Communication and power transmission is performed by wireless.)

③ The charge control, is done by CC · CV control.

④ When the battery voltage reaches the specified voltage and the charging current drops to 1.5 A, the float charge state is entered. Also, if the charging head is out of the charging head transmittable range, the power charging is automatically stopped and the standby state is entered.

(5) In the float charge state, when the output current becomes 3A, it will return to the CV charge state and perform the above operation.



Battery remaining capacity forecast graph

Easy coordinate identification system

It is an RFID system for easier data writing and easier installation than conventional magnet type reader and underground embedded type glass tag.



* The cable length is included after the PU. Example : PU-02 = 2 m

Type code	Z1-FA01-128	Z1-FB01-128	ISO15693CARD	Z1-B011-128	Z1-AA04-02K	Z1-EC02-128
Features	Flexible	Flexible	Card	Long distance	D-2N Compatible on installation	Ceramic
	0					0
Applicable system	5/8/10 bit	5/8/10 bit	5/8/10 bit	5/8/10 bit	5/8/10 bit	5/8/10 bit
Size(mm)	¢16 x 0.9	ф 28 x 0.8	85.6 x 54 x 0.76	ф 50 x 8.3	30 x 30 x 6	φ 26 x 3.4 (Hole φ 6)
Material	Glass fiber cloth	Glass fiber cloth	PVC	PA6	PBT	Almina ceramic
Read distance (When non-metal)	5bit:015mm 8bit:018mm 10bit:042mm	5bit:019mm 8bit:030mm 10bit:060mm	5bit:022mm 8bit:047mm 10bit:0108mm	5bit:012mm 8bit:022mm 10bit:054mm	5bit:012mm 8bit:016mm 10bit:034mm	5bit:012mm 8bit:012mm 10bit:034mm





Data carrier

Traditionally, a magnetic type address plate (magnet type) has been frequently used to acquire position information of AGV, but it is difficult to rewrite data if it is a magnetic type address plate. And the challenge was the sensor part becomes larger depending on the tape width. Product that we are proposing this time is easy RFID 8 bit system which is easy to write (it can be easily rewritten), space-saving can be installed, specialized for AGV position confirmation. The simplicity of introduction has been popular among many customers. Please try first!

Wireless power supply system for driving a Moller for unloading work

Replace the Moller that was diverting the power source from the conventional battery with, power supply from the station at the time of stoppage. And AGV' s lifetime improves.





The feeding zone	48W	120W
Type name	RVT-211-22-PU, RVE-211-2-PU	RVTA-411-25-PU, RVEA-411-3-PU
Dimension	90mm x 90mm x 45mm	150mm x 200mm x 103mm
Operating distance	49mm	410mm
Power supply capacity	24V±1.5VDC / 2A	24V±2VDC / 5A

* Some products may to need have a permission for using high frequency in the facilities.





Power Moller is often used to unload the package on the AGV, but because it used to utilize the driving power of the Power Moller from the battery on the AGV, battery consumption was fast and it was decreasing the availability of the AGV. Our power supply system that can supply electric power only when it stops at each station has increased opportunities to use it together with AGV as a product that realizes driving of Power Moller without consuming. AGV batteries. Please try first.

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

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- * Info may change the mention contents such as specifications without a notice. Thank you for understanding
- * Please refer to instruction manual or the user's guide. It can be download by HP.