B&PLUS

Remote Power Supply System

Upgrade power supply by non-contact

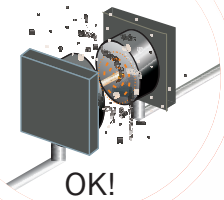
24V DC/5A
28V DC/4A (For battery charging)

Parallel coupling
RV/A series
24V/5A and
28V/4A

Base part :
RVEA-411-3-PU

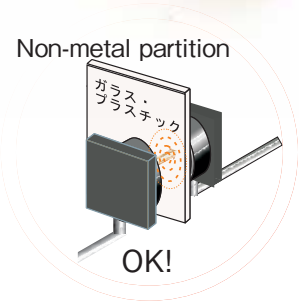
Remote part :
RVTA-411-25-PU
RVTA-411-44-PU (For battery charging)

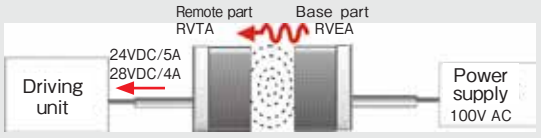
Non-metal dust*



Dirt and waterdrop

Non-metal partition



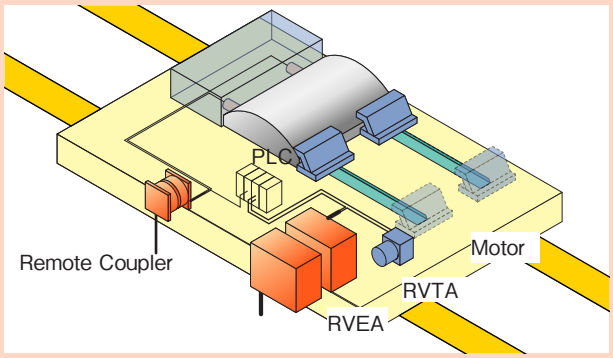


< Feature of Remote Power Supply System RV/A >

Supply power by non-contact from base part, which is mounted on fixed side and is connected to 100VAC, to Remote part on moving side, and supply 24VDC/5A or 28VDC/4A to unit connecting to Remote part.

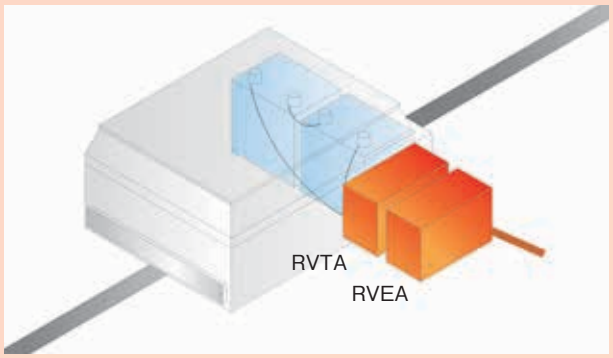
Application

Power supply to motor on pallet



- The connector for power supply to the pallete is no moer necessary.
- Due to using PLC on the pallet, communication between pallet side and station side is only necessary at start and end of product line.

Battery charging to AGV

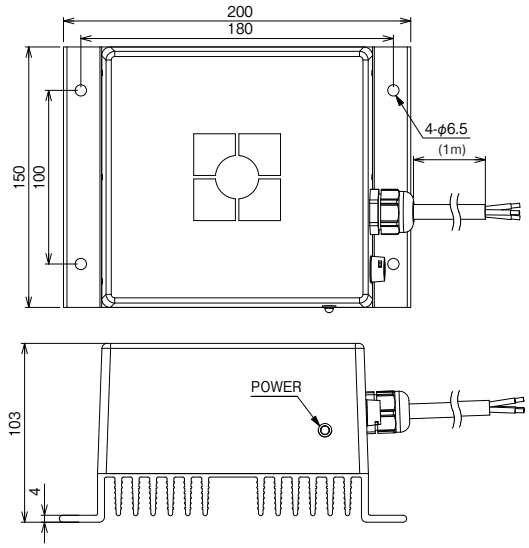


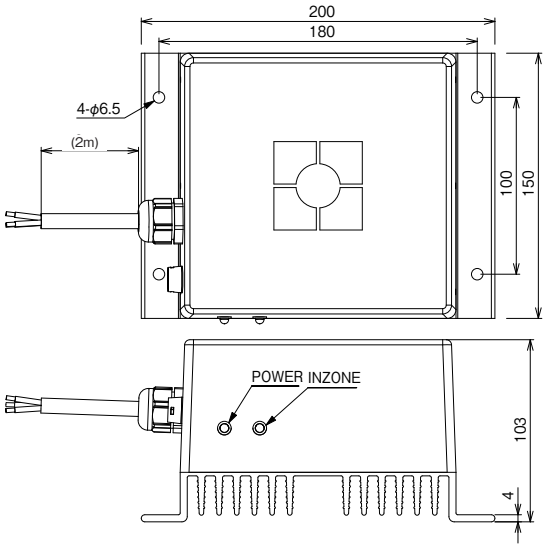
- To stop AGV is to start battery-charge.
- As current-carrying part is covered in a case, safety of an operator is defended.

*Don't adhere to metallic dust and chips.

Product News

Parallel coupling ／24V DC/5A of 28V DC/4A





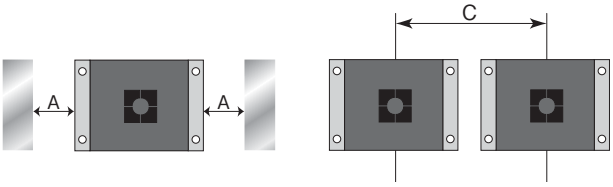
	Remote part	
Type code	RVTA-411-25-PU-01	RVTA-411-44-PU-01
Driving voltage	24V ± 2V DC	28V ± 2V DC
Driving current	max.5A	max.4A
Operating distance	0...10mm	0...10mm
Offset tolerance	± 4mm	± 4mm
Driving current	≦ 5A	≦ 4A
Operating temperature	0...+50℃	
Protection class	IP65	
Cable	PUR / φ 8 , 3 x 2mm² (BN : +／BU : −／YE+GN : FG)	
Material Housing	PPS	
Material Heat sink	Aluminum	
Weight	3Kg (Body) + 100g/m (Cable) = 3.1Kg	
Note		For battery charging

	Base part
Type code	RVEA-411-3-PU-02
Supply voltage	100V AC ± 10%
Current consumption	≦ 3A
Load current	---
Operating frequency	---
LED	Power , Inzone
Operating temperature	0...+50℃
Protection class	IP65
Cable	PUR / φ 8 , 3 x 2mm² (BN : +／BU : −／YE+GN : FG)
Material Housing	PPS
Material Heat sink	Aluminum
Weight	3Kg (Body) + 100g/m (Cable) x 2 = 3.2Kg
Note	

Mounting

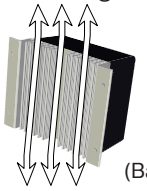
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

■ Influence of surrounding metal ■ Mutual interference



Type code	A(mm)	C(mm)
RVTA-411-_ _-PU-_ _	150	500
RVEA-411-3-PU-_ _		

■ Self-heating

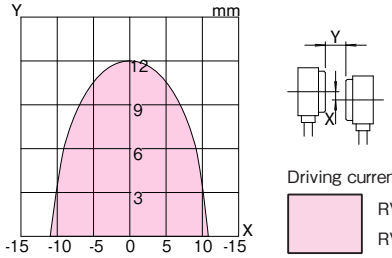


(Back side)

(1) To keep the ideal naturally-cooled condition, please pay attention to natural convection.
(2) Please consider about self-heating and take measure to keep the operating temperature

Typical transmitting diagram (Supply voltage at 100VAC)

RVTA-411-_ _-PU-_ _/RVEA-411-3-PU-_ _



Note

■ Please use with driving unit for DC24 +/- 2V

■ The total value of the connecting driving unit should not exceed the driving current.

■ Please be sure that driving current changes depending on operating distance or center offset (Refer to the diagram above)

Wireless Power Supply by
B & PLUS K.K.

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

* Contents is subject to change without notice.