

Product General Specification

TBC004-24V



The information contained in this document represents the current view of Polygroup, Inc. on the issues discussed as of the date of publication. Because Polygroup must respond to changing market conditions, it should not be interpreted to be a commitment on the part of Polygroup, and Polygroup cannot guarantee the accuracy of any information presented after the date of publication.

This document is for informational purposes only. Polygroup MAKES NO WARRANTIES, EXPRESS OR IMPLIED, REGARDING THE INFORMATION CONTAINED IN THIS DOCUMENT.

Complying with all applicable copyright laws is the responsibility of the user. Without limiting the rights under copyright, no part of this document may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), or for any purpose, without the express written permission of Polygroup, Inc. Polygroup may have patents, patent applications, trademarks, copyrights, or other intellectual property rights covering subject matter in this document. Except as expressly provided in any written license agreement from Polygroup, the furnishing of this document does not give you any license to these patents, trademarks, copyrights, or other intellectual property.

© Copyright 2013 by Polygroup, Inc. All rights reserved. Polygroup®, and the Polygroup logo are registered trademarks of Polygroup, Inc. Other product and company names mentioned herein may be the trademarks of their respective owners.

This information is Confidential and Proprietary to Polygroup, Inc.



1.0 Table of Contents

1.0 Table of Contents..... 2

2.0 Description（描述） 3

3.0 Scope（范围） 3

4.0 Referenced Documents（参考文件） 3

5.0 Glossary of Terms（专业术语） 3

6.0 Technical Specifications（技术要求） 3

7.0 Primary Operational Functions（主要操作功能） 4

8.0 Safety and Agencies Approval 安全和机构批准 4

9.0 FCC Waring FCC警语 5

2.0 Description (描述)

This is a Christmas lighting product that allows users to experience the atmosphere of holiday lights. It includes an adapter, a controller and a RGB LED string by power line control (PLC) technology. It contains a tact button and can wirelessly connect mobile devices via Wi-Fi.

3.0 Scope (范围)

This product is suitable for the entire North American market.

4.0 Referenced Documents (参考文件)

N/A

5.0 Glossary of Terms (专业术语)

Power Line Control -- PLC

6.0 Technical Specifications (技术要求)

Mechanical Spec

Parameters	Typical
Product Size	104 * 60 * 33
Light Spacing	7"
Lead	N/A
End Connector	N/A

Electronic Spec.

Parameters	Min.	Typical	Max.	Limits	Units	Condition
Input Voltage	22.8	24.0	25.2	≤25.2	VDC	
Output Current	-	-	2.00	≤2.00	A	
Standby Current	-	-	-	≤45	mA	24VDC input
Frequency Range Of Wi-Fi	2.412	-	2.472	-	GHz	
Wi-Fi Distance (1)	-	50	-	≥25	Meters	Open filed without same frequency interference
Wi-Fi Distance (2)	-	24	-	≥12	Meters	Indoor room without same frequency interference

7.0 Primary Operational Functions (主要操作功能)

Function:

The LED indicator of the controller will light up and indicate the status of the response after the product is powered up, at this point, User can operates the tact button of the controller to switch the lighting effect, there are 5 default light effects selection.

1. **Rainbow / Arc-en-ciel / Arco Iris**
2. **Bright Twinkle / clignotement / brillant / destello brillante**
3. **Snake / serpent / serpiente**
4. **Wave / vagues / olas**
5. **Collision / Collision / Collision**

User can also connects the product use Twinkly APP via Wi-Fi, and the APP can run on mobile devices with Android or IOS systems, The APP provides more light effects for users to choose, users only need to click to confirm the light effect icon

8.0 Safety and Agencies Approval 安全和机构批准

Agency	Concern	Mandatory 强制性	Required 需要	Desirable 适用
CE	Product Safety – Listed			
UL	Product Safety – Classified			Y
UL	Product Safety – Recognized			
FCC	RF Emissions Class B	Y		
TÜV, GS	Product Safety Ergonomics			

9.0 FCC Warning FCC警告

FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

ISED Warning

This device complies with Innovation, Science, and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The device is compliance with RF exposure guidelines, users can obtain Canadian information on RF exposure and compliance. The minimum distance from body to use the device is 20cm.

Le présent appareil est conforme Après examen de ce matériel aux conformité ou aux limites d'intensité de champ RF, les utilisateurs peuvent sur l'exposition aux radiofréquences et la conformité and compliance d'acquérir les informations correspondantes. La distance minimale du corps à utiliser le dispositif est de 20cm.