

# PROTECH LED

be creative



## LED STRIP SPECIFICATION

AT-RGBW60-PIXEL-5V-1





**AT-RGBW60-PIXEL-5V-1**

**DESCRIPTION**

magic LED strip lights let you create millions of colors by just mixing red, green, blue and white colors. With the ability to control each individual pixel and each individual channel, the color mix and color effects possibilities are endless.

LED Chip is built-in IC SK6812, supporting numerous Color-change effects every single LED. Fully compatible with WS2812B. Flexible PCB 5V low voltage input.



**DIMENSIONS & WATERPROOF**

Dimension						
IP Grade	<p>IP20</p>	<p>IP52</p>	<p>IP65H</p>	<p>IP65</p>	<p>IP67</p>	<p>IP67E/IP68</p>

**PRODUCT SPECIFICATION**

Dimension	5000x10x2.2mm	Voltage (V)	DC5V
Chip Type	5050SMD	Current (A/m)	4.8A
Chip Density	60LEDs/m	Power (W/m)	24W (4 colors 100% on)
Step LEDs	1LED	Beam Angle	120°
Step Length	16.54mm	Operation Temperature	-20°C~50°C

**PRODUCT PHOTOMETRICS - RED, GREEN AND BLUE DIODES (DATA BASE ON IP20)**

Color	Peak Wavelength (nm)	Dominant Wavelength (w/m)	Lumen (lm/w)	Power (w/m)	Efficacy (lm/w)
RED	632	622	123.55	5.33	23.18
GREEN	517	523	461.64	6.71	68.80
BLUE	462	466	81.05	5.96	13.60



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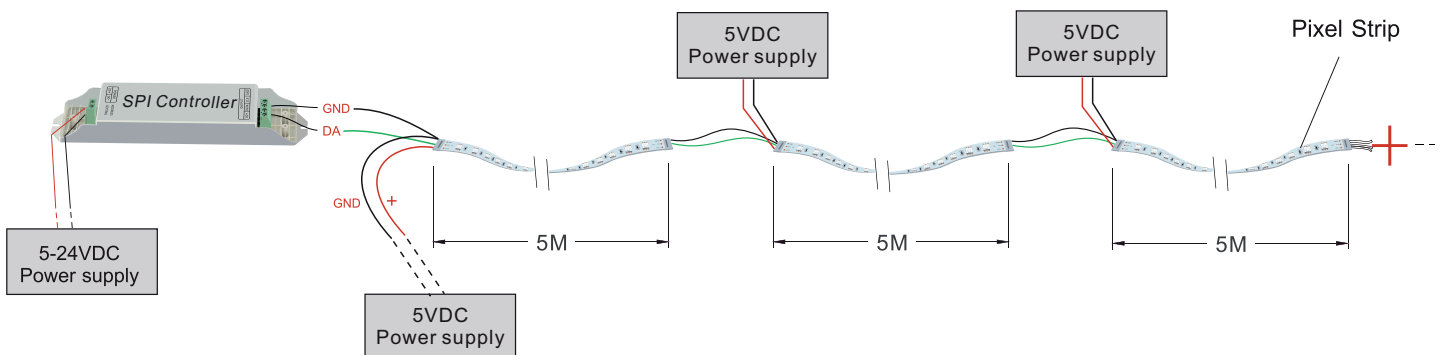
**PRODUCT PHOTOMETRICS - WHITE DIODES ONLY (DATA BASE ON IP20)**

CCT (K)	Lumen (lm/m)	Power (w/m)	Efficacy (lm/w)	CRI	R9
3000±200	563.16	6.00	93.86	72.66	8.58
4000±300	575.70	6.00	95.95	73.38	17.62
<b>6000±400</b>	<b>587.34</b>	<b>6.00</b>	<b>97.89</b>	<b>78.49</b>	<b>18.41</b>

**PRODUCT PHOTOMETRICS - ALL FOUR COLOR AT 100% ON (DATA BASE ON IP20)**

CCT (K)	Lumen (lm/m)	Power (w/m)	Efficacy (lm/w)	CRI	R9
RGB+3000	1197.84	24.00	49.91	56.45	-
RGB+4000	1312.08	24.00	54.67	63.28	-
<b>RGB+6000</b>	<b>1331.28</b>	<b>24.00</b>	<b>55.47</b>	<b>72.56</b>	-

**WIRING**



- IP20: bare, max. light output and the best color consistency, indoor use.
- IP52: silicone coating, ~5% less output and 3rd best color consistency, indoor use, for damp environments.
- IP65: silicon tube/Heat shrink tube/Extrusion tube/U milky tube + clear cover, ~3% less output and 2nd best color consistency, indoor use or semi-outdoor use, for raining environments.
- IP67: silicone tube + siliconfilling, ~7% less output and 4th best color consistency, outdoor use, max length is 10 meters.
- IP67E: solid silicone extrusion, ~7% less output and 4th best color consistency, outdoor use, max length up to 50 meters.
- IP68: PU (Polyurethane), ~7% less output and 4th best color consistency, under the water, within 2 meters deep.