LED Strip RGBW

LED Strip Instruction and Operating Manual
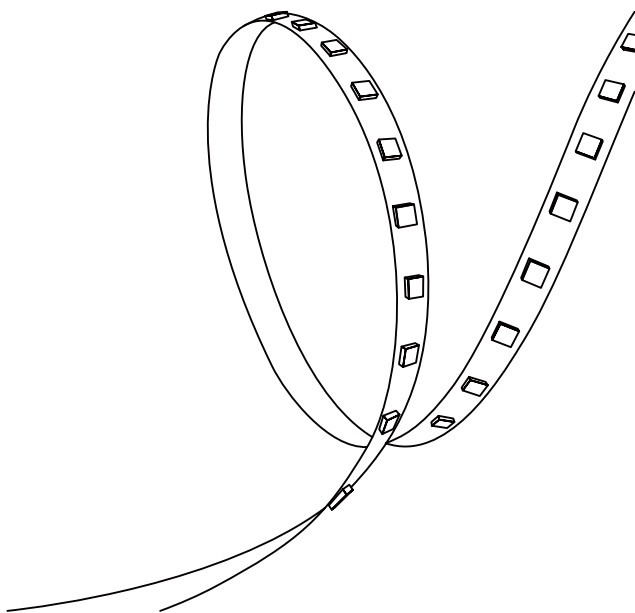
LED Strip RGBW

OPPLE

Technical Specification

SKU	SAP Description	Dimension (L*W*H)	W/M	LM/M	Efficacy	K	CRI	Operating Temp.
806001022800	LEDStrip-P19.2W-927-1200-RGBW-IP20	5000*12*4.5mm	19.2	865	45	RGBW+2700	90	-20-40℃
806001022900	LEDStrip-P19.2W-940-1200-RGBW-IP20	5000*12*4.5mm	19.2	1056	55	RGBW+4000	90	-20-40℃

The instructions are only valid for the products named above, containing important instructions for commissioning and
handling, and are an integral part of the product. The permissible maximum Tc temperature must not be exceeded during operation. Read the safety in
structions carefully. Electrical installation of the LED strip must be carried out by a qualified electrician!

Applications:
IP20 LED Strip: Suitable for indoor application where the humidity no more than 55%.

Dimension drawing:
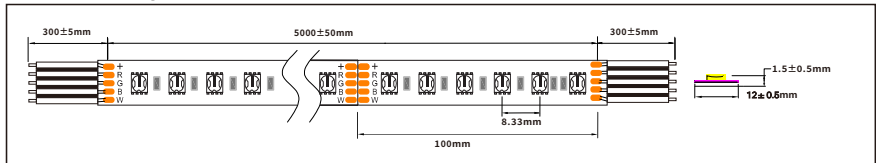
General Instruction For Use

The LED Strip may only be sharply bent once in places where no electronic components are mounted. The minimum bending
radius is 20 mm.

Ensure that no mechanical loads are applied to the electronic components on the LED strip.
Ensure that the LED strip is adequately protected in areas containing dust or water.
Never fold LED Strip in the transverse direction. This damages the solder paths and soldercontacts.

Max length of LED Strip connect to a power supply cannot exceed 5 meters.
The total output of Opple LED Strip must not exceed the maximum output of the driver.
Recommend having additional 20% of safe margin from power supply.

Installation

Cutting LED Strip to the desired length

You can use scissors (or similar) to cut the Opple LED strip to the desired length at the marked points between the solder pads.

The color of the cable must show:

RGBW (2700/4000K)	
Brown:	LED+
Red:	LED-(R)
Green:	LED-(G)
Blue:	LED-(B)
White:	LED-(W)

General Instruction For Use

Connection IP20

LED Strip is cut to length, the connection wire can be connected by soldering or using Opple LED Strip
connectors for IP20 strips.
When soldering, ensure that the copper contact points are clean. For a good adhesion of the solder tin, it
is recommended making a few scratches in the copper contacts with a screwdriver.

Profile and Driver selection:

Ref. Profile	RGBW IP20 Strip
Profile-SF-10x10(AL/BL)	
Profile-SF-15x15 (AL/BL)	X
Profile-SF-17x7(AL/BL)	X
Profile-Rc-10x10	
Profile-Rc-15x15	X
Profile-Corner-18x18	X

Driver Type	RGBW IP20 Strip
36W On/Off	
60W On/Off	
120W On/Off	X
160W On/Off	X
240W On/Off	X

SF: Surface Mounting; RC: Recessed Mounting

For more information related to Connectors and Mounting Accessory, please visit www.opple.com

Power supply and controller:

- Using 24VDC power supply, requires a minimum voltage of 24DCV +/-10% to function.
- Opple recommends choosing a power supply with 20% safe margin of the total power needed for LED Strip.
- The maximum length of LED Strip to the driver is 5 meters, to avoid the voltage drops.
- Opple strongly recommend using Parallel Connection.
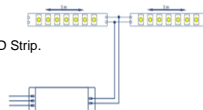
The Max. Length ofwire in connection between LED Strip and Power supply

Driver Type		Diameter of Wire						
		0.5mm2	0.75mm2	1mm2	1.5mm2	2.5mm2	4mm2	6mm2
Power Supply	40W	6m	9m	12m	18m	30m	48m	72m
	60W	4m	6m	8m	12m	20m	32m	48m
	75W	3m	4.8m	6.4m	9.6m	16m	25m	38m
	100W	2.4m	3.6m	4.8m	7.2m	12m	19.3m	29m
	120W	2m	3m	4m	6m	10m	16m	24m
	150W	1.6m	2.4m	3.2m	4.8m	8m	12.9m	19.3m
	200W	1.2m	1.8m	2.4m	3.6m	6m	9.6m	14.5m
	240W	1m	1.5m	2m	3m	5m	8m	12m