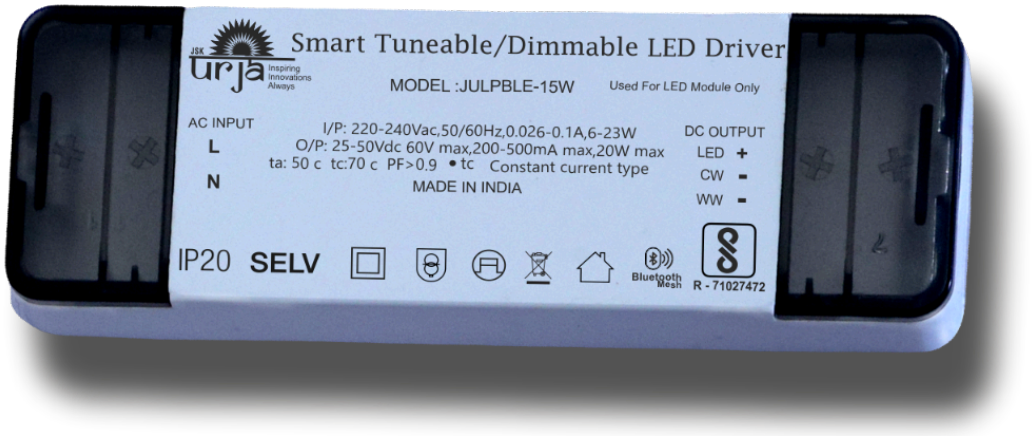
LOW PF BLE SMART TUNEABLE / DIMMABLE LED DRIVER

PRODUCT DATASHEET | JULPBLE15N-6-20W



KEY FEATURES

- BLE-enabled Constant Current LED Driver
- Dimming Range: 0.1–100%
- Wireless App Control via Smart Life / Tuya
- Low Power Factor Design (PF >0.56)
- Flicker Free
- Custom Output Current Options
- Tunable White Control (CW / WW Outputs)
- IP-20
- Voice Assistant Compatible (via Gateway)

APPLICATIONS

Suitable for indoor use: COB light, panel light, down light, Smart Indoor Lighting, etc.

DESCRIPTION

JULPBLE15N-6-20W is an advanced Bluetooth Low Energy (BLE) based constant current driver, engineered for smart and efficient lighting control. Designed to integrate seamlessly with modern home automation ecosystems, this driver allows wireless dimming and scheduling through mobile apps like Smart Life or Tuya — eliminating the need for physical dimmer switches.

Built for energy efficiency, smooth dimming, and flicker-free performance, this compact yet powerful driver is ideal for use in downlights, spotlights, panel lights, and COB LEDs. It supports multiple output current configurations and offers a full dimming range of 0.1% to 100%.

With protection features such as over-voltage, over-current, and thermal cut-off, and compatibility with voice assistants like Alexa and Google Assistant (via gateway), it brings convenience, safety, and intelligence to any lighting installation.

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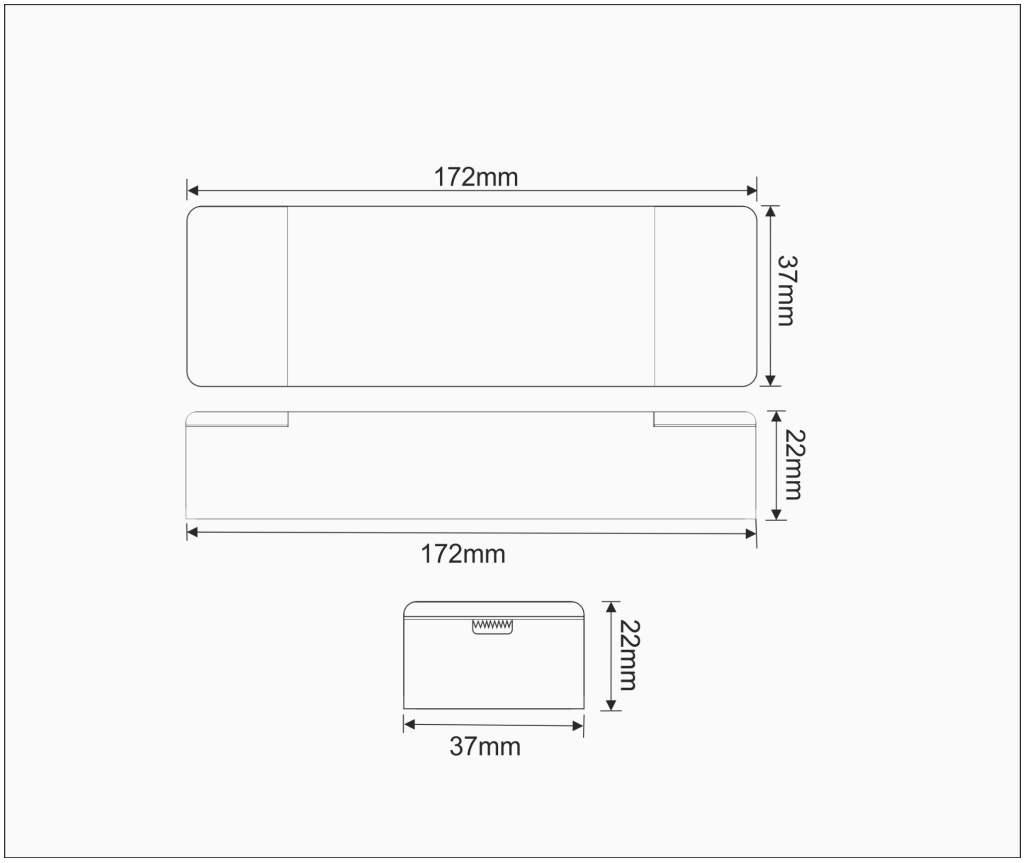
MODEL NO. & WATTAGE

Model No.: JULPBLE15N-6-20W
Output Rating: 40V / 500mA | 60V / 300mA
Output Wattage: 6W to 20W (40V / 500mA) | 18W (60V / 300mA)

DIMENSIONS & WEIGHT

Parameter	Value
Length	172 mm
Breadth	37 mm
Height	22 mm
Weight	70 g
Max. Cable Length to Lamp/LED Module	3.0 mm
Wire Input	Line – Brown, Neutral – Blue
Wire Output	Connector wire (LED +, CW –, WW –)
Prewired	Yes
Type of Connection, Output Side	Wires

MECHANICAL DIMENSION DRAWING



LOW PF BLE SMART TUNEABLE / DIMMABLE LED DRIVER

TECHNICAL PARAMETERS

Parameter	Value
Input Voltage	160V–240V AC
Input Wattage	6W–22W
Output Wattage	6W–20W
Frequency	50–60 Hz
Power Factor (full load)	>0.56
THD (full load)	≈140–150%
Efficiency (full load)	>78%
Inrush Current	<4A
O/P Current Type	DC
O/P Current Tolerance	10%
Galvanic Isolation	SELV
Output Voltage (No Load)	45/62Vdc Max
Adjustable Current Set	150mA, 200mA, 250mA, 300mA…500mA
DC Input Capability	Not Supported (AC Input Only)

ELECTRICAL DATA

Parameter	Value
Max. ECG No. on Circuit Breaker 10A	30
Max. ECG No. on Circuit Breaker 16A	45
Max. ECG No. on Circuit Breaker 25A	70
Surge Capability (L/N–Ground)	0.5 KV
Surge Capability (L–N)	1 KV
U-out (Working Voltage)	28–42 V
Output Ripple Current (100Hz)	3%
Device Power Loss	5W

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DIMMING & PROTECTION

Parameter	Value
Dimming Method	Bluetooth (BLE 4.2 / 5.0)
Dimming Range	0.1–100%
Voice Assistant Integration	Alexa / Google Assistant (via Gateway)
Surge Protection	Up to 6 KV
Over Voltage Protection	Yes
Over Current Protection	Yes
Short Circuit Protection	Yes
Class	II
Suitable for Emergency Lighting	No
Isolated	Yes

TEMPERATURE & MATERIAL

Parameter	Value
Ambient Temperature	50°C
Case Temperature	75°C
Enclosure Material	Plastic (FR rated), PC
Enclosure Color	Milky White, with Black Cap
Max. Housing Temperature (in Case Fault)	<85°C

STANDARDS & CERTIFICATES

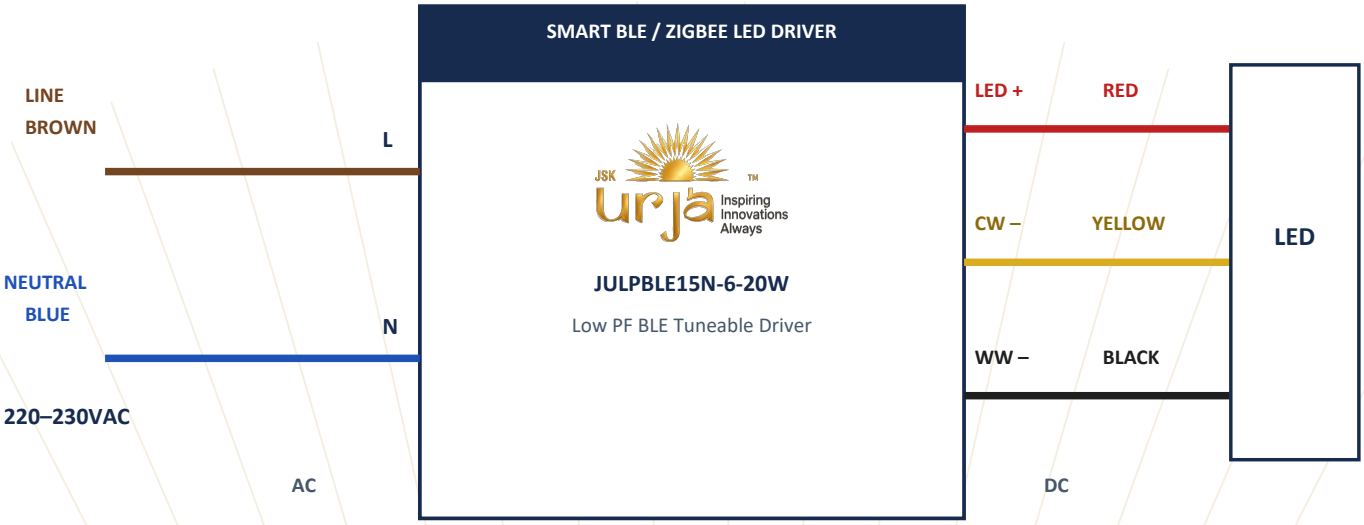
Parameter	Value
Standards	IEC61347-1, IEC 61347-2-13, IEC 62384, CISPR 15, IEC 61000-3-2, IEC 61000-3-3, IEC 61547
Certificates	BIS (R-71027472)
Protection Class	II
Type of Protection	IP20

REFERENCE

Parameter	Value
Model No.	JULPBLE15N-6-20W
Source Document	JSK URJA Product Datasheet — JULPBLE15N-6-20W
Contact	www.jskurja.com | sales@jskurja.com | +91-9920730373

JSK URJA SMART BLE / ZIGBEE DRIVER CONNECTION DIAGRAM

SINGLE CONNECTION



Wire Input: Line – Brown, Neutral – Blue

Wire Output: Connector wire (LED +, CW –, WW –)

Prewired: Yes Type of Connection, Output Side: Wires

Single connection shown. Supply 220–230VAC as on the Smart Series connection diagram.

Source wiring preserved