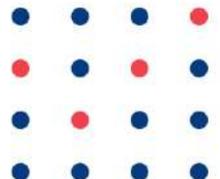


**PRODUCTS CATALOGUE 2024**

WELCOME TO THE

**BIDC MOTOR**

Controllers Driver



# ABOUT US

Sinotronics Technologies Pvt. Ltd. is one of Growing energy efficient PMSM motor manufacturer of India. Sinotronics established with the aspiration to bring innovation to energy efficient product. Sinotronics is a team with R&D capabilities, spirit of continuous design and manufacture of motors, motor control products and super-efficient ceiling fans and also amongst one of the largest exporters of BLDC ceiling fan in its business segment. Sinotronics serves the domestic markets across India and also serves the export markets in U.S.A, Middle East, Mexico, South East Asia and Australia region.



## EMS Facility: - Outsourced Vendor Based



# Our Design Capabilities

## Motor Controllers: -



Concept Level Product Design Capabilities



Schematic and PCB level Designing capabilities



Proto Typing of PCB Boards



Motor Tuning & Software Level Customization

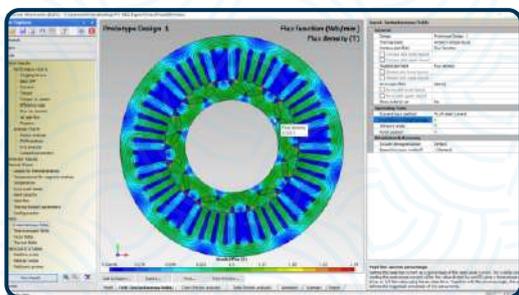


Product Level Performance Testing

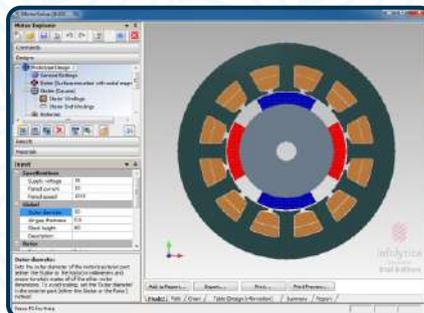


Reliability & Durability Test

# Motor Design Capabilities



Concept Level Motor Design Finalization



Simulation Of Motor Design Based On Required Specification



Motor Proto Typing

# Product Level Testing



Air delivery testing



Surge & EFT



EMI and EMC



Thermal Test



Switching & Running Test



Inverter and Variable Voltage Test

# Online Testing & Programming Setup



Board Panel Testing Set-up

**Model Name : -**

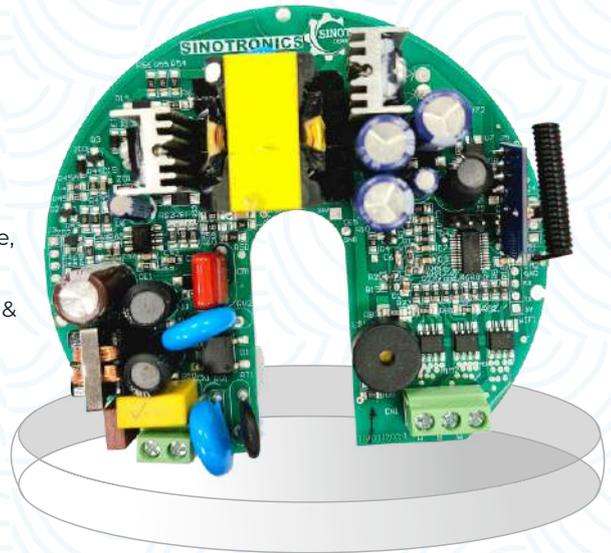
**ST-D501-RF**

**Description:-**

**BLDC Ceiling fan Driver 35W with RF**

**TECHNICAL SPECIFICATION**

- Input Voltage Operation: - (100-300) VAC
- Max Input Wattage:- 35W
- Fan Functions:- 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.
- Protections :- UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.
- Application Motor:- 24VDC
- Control Option:- RF Remote
- Rf Frequency:- 433.24 MHZ
- Application:- BLDC Ceiling fan.
- Suitable Sales Regions:- India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name : -**

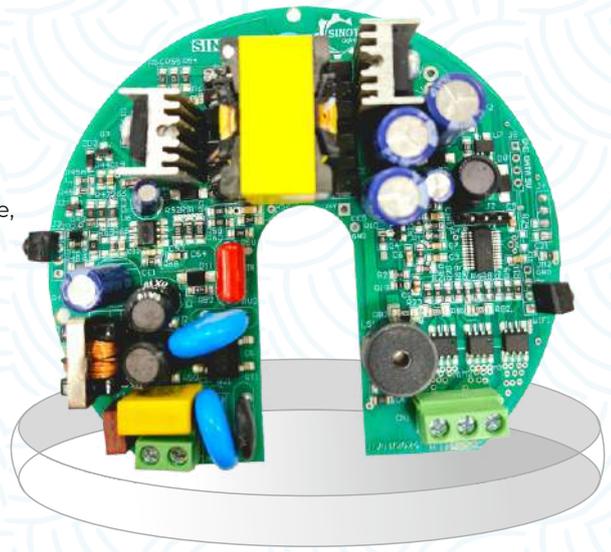
**ST-D502-IR- DUEL**

**Description:-**

**BLDC Ceiling fan Driver 35W With Duel IR.**

**TECHNICAL SPECIFICATION**

- Input Voltage Operation: - (100-300) VAC
- Max Input Wattage: - 35W
- Fan Function: - 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.
- Protections: - UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.
- Application Motor: - DC 24V
- Control Option: - IR remote
- Application: - BLDC Ceiling fan.
- Suitable Sales Regions: - India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name : -**

**ST-D503-RF- IOT**

**Description:-**

**BLDC Ceiling fan Driver 35W With RF and IOT**

**TECHNICAL SPECIFICATION**

- Input Voltage Operation: - (100-300) VAC
- Max Input Wattage: - 35W
- Fan Function: - 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.
- Protections: - UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.
- Application Motor: - DC 24V
- Control mode:- RF Remote and Mobile app
- RF Frequency 433.24 MHZ.
- IOT Platform: - TUYA
- Application: - BLDC Ceiling fan.
- Suitable sales regions:- India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name : -**

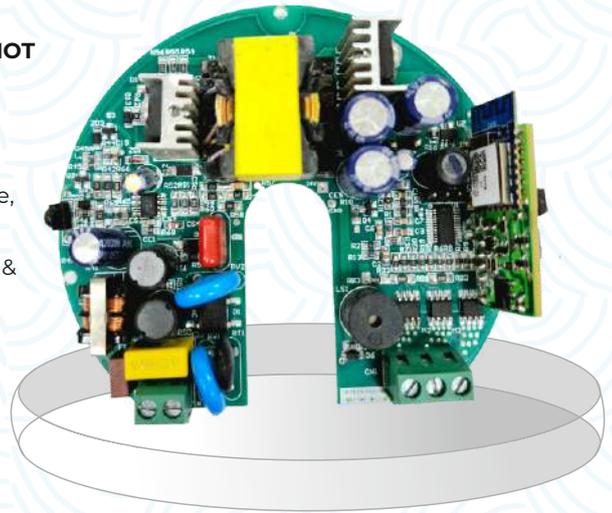
**ST-D504-IR & IOT**

**Description:-**

**BLDC Ceiling fan Driver 35W With Duel IR and IOT**

**TECHNICAL SPECIFICATION**

Input voltage operation:-	(100-300) VAC
MAX Input wattage:-	35W
Fan function:-	6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.
Protections:-	UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.
Application motor: -	DC 24V
Control option:-	IR remote and Mobile app
IOT Platform:-	TUYA
Application:-	BLDC Ceiling fan.
Suitable sales:-	India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name : -**

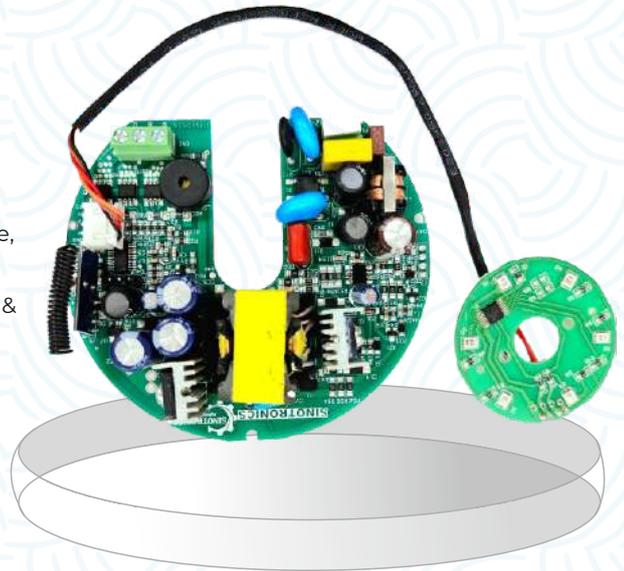
**ST-D505-RF – 6 LED**

**Description: -**

**BLDC Ceiling fan Driver 35W with 6 LED RF**

**TECHNICAL SPECIFICATION**

Input Voltage Operation: -	(100-300) VAC
Max Input Wattage: -	35W
Fan Function: -	6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.
Protections: -	UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.
Application Motor: -	DC 24V
Control Option: -	RF remote
Indication LED: -	6 BLUE LED- 0.5 W
RF Frequency: -	433.24 MHZ.
Application: -	BLDC Ceiling fan.
Suitable Sales Regions: -	India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name : -**

**ST-D506-RF – 6 LED SB**

**Description: -**

**BLDC Ceiling fan Driver 35W with 6 LED RF.**

**TECHNICAL SPECIFICATION**

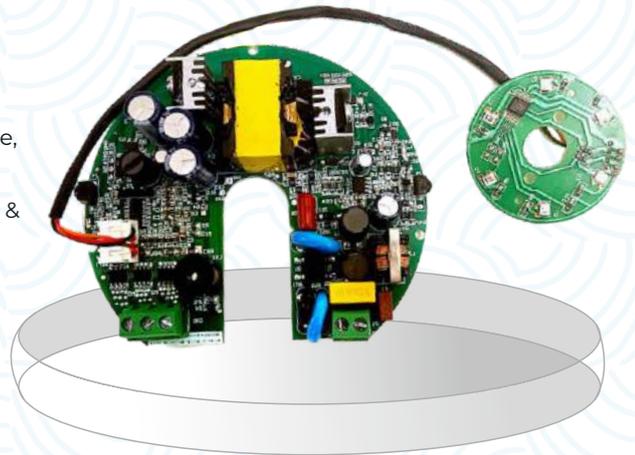
Input Voltage Operation: -	(100-300) VAC
Max Input Wattage: -	35W
Fan Function: -	6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.
Protections: -	UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.
Application Motor: -	DC 24V
Control option:-	RF remote
Indication LED:-	6 BLUE LED- 0.5 W
RF Frequency: -	433.24 MHZ.
Application: -	BLDC Ceiling fan.
Suitable sales regions:-	India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name : -** **ST-D507-IR – 6 LED**  
**Description:-** **BLDC Ceiling fan Driver 35W with 6 LED IR**

**TECHNICAL SPECIFICATION**

Input voltage operation:- (100-300) VAC  
 MAX Input wattage:- 35W  
 Fan function:- 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.  
 Protections:- UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.  
 Application motor: - DC 24V  
 Control option:- IR remote  
 Indication LED:- 6 Blue LED- 0.5 W  
 RF Frequency:- 433.24 MHZ.  
 Application:- BLDC Ceiling fan.  
 Suitable sales:- India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name : -** **ST-D508-IR -IOT – 6 LED SB**  
**Description: -** **BLDC Ceiling fan Driver 35W with 6 LED Duel IR and IOT.**

**TECHNICAL SPECIFICATION**

Input Voltage Operation: - (100-300) VAC  
 Max Input Wattage: - 35W  
 Fan Function: - 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.  
 Protections: - UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.  
 Application Motor: - DC 24V  
 Control Option: - IR remote and Mobile app  
 Indication LED: - 6 BLUE LED- 0.5 W  
 IOT Platform: - TUYA  
 Application: - BLDC Ceiling fan.  
 Suitable Sales Regions: - India, Sri Lanka, Nepal, Bangladesh, Online Sales.



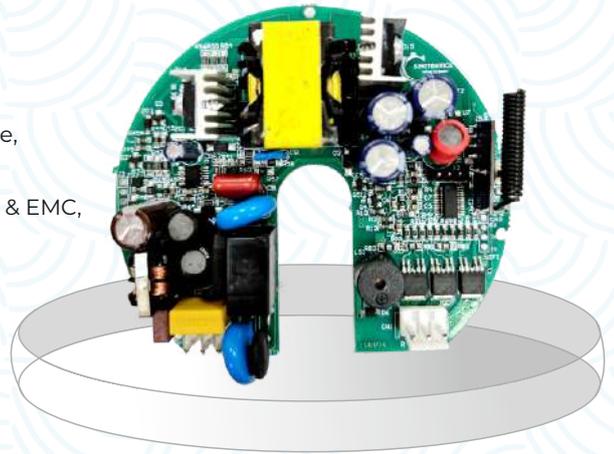
**Model Name : -** **ST-D509-RF- 90MM**  
**Description: -** **BLDC Ceiling fan Driver 35W with RF**

**TECHNICAL SPECIFICATION**

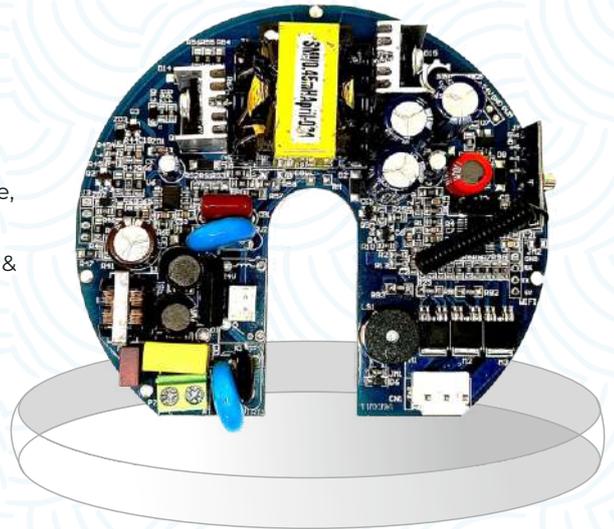
Input Voltage Operation: - (100-300) VAC  
 Max Input Wattage: - 35W  
 Fan Function: - 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.  
 Protections: - UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.  
 Application Motor: - DC 24V  
 Control mode:- RF remote  
 Indication LED: - 6 BLUE LED- 0.5 W  
 RF Frequency 433.24 MHZ.  
 Application: - BLDC Ceiling fan.  
 Suitable sales regions:- India, Sri Lanka, Nepal, Bangladesh, Online Sales.



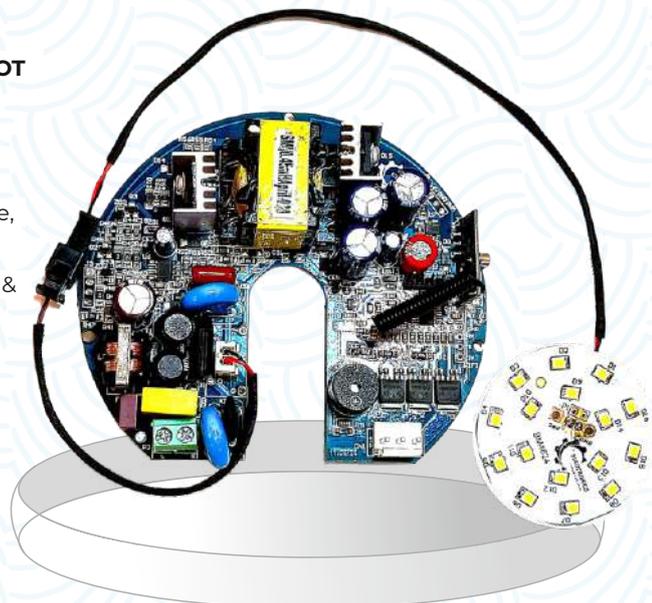
**Model Name :-** **ST-D510 -RF – 40W-LED**  
**Description:-** **BLDC Ceiling fan Driver 40W with RF - CCT LED**  
**TECHNICAL SPECIFICATION**  
 Input voltage operation:- (100-300) VAC  
 MAX Input wattage:- 40W  
 Fan function:- 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.  
 Protections:- UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.  
 LED Control: - Color change Led.  
 Application motor: - DC 24V  
 Control option: RF remote  
 RF Frequency: - 433.24 MHZ.  
 Application: - BLDC Ceiling fan.  
 Suitable sales regions:- India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name :-** **ST-D511 -RF -IOT – 40W**  
**Description: -** **BLDC Ceiling fan Driver 40W with RF & IOT**  
**TECHNICAL SPECIFICATION**  
 Input Voltage Operation: - (100-300) VAC  
 Max Input Wattage: - 40W  
 Fan Function: - 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.  
 Protections: - UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.  
 Application Motor: - DC 24V  
 Control Option: - RF remote and Mobile App  
 RF Frequency: - 433.24 MHZ.  
 IOT Platform: - TUYA  
 Application: - BLDC Ceiling fan.  
 Suitable Sales Regions: - India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name :-** **ST-D512 -RF 6 LED-IOT – 40W**  
**Description: -** **BLDC Ceiling fan Driver 40W with 6 LED RF & IOT**  
**TECHNICAL SPECIFICATION**  
 Input Voltage Operation: - (100-300) VAC  
 Max Input Wattage: - 40W  
 Fan Function: - 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.  
 Protections: - UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.  
 Application Motor: - DC 24V  
 Control mode:- RF remote and Mobile App  
 Indication LED: - 6 BLUE LED- 0.5 W  
 RF Frequency: - 433.24 MHZ.  
 IOT Platform:- TUYA  
 Application: - BLDC Ceiling fan.  
 Suitable sales regions:- India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name :-** **ST-D513-RF – 1W-LED**

**Description:-** **BLDC Ceiling fan Driver 35W with 1W LED RF.**

**TECHNICAL SPECIFICATION**

Input voltage operation:- (100-300) VAC

MAX Input wattage:- 35W

Fan function:- 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.

Protections:- UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.

Application motor: - DC 24V

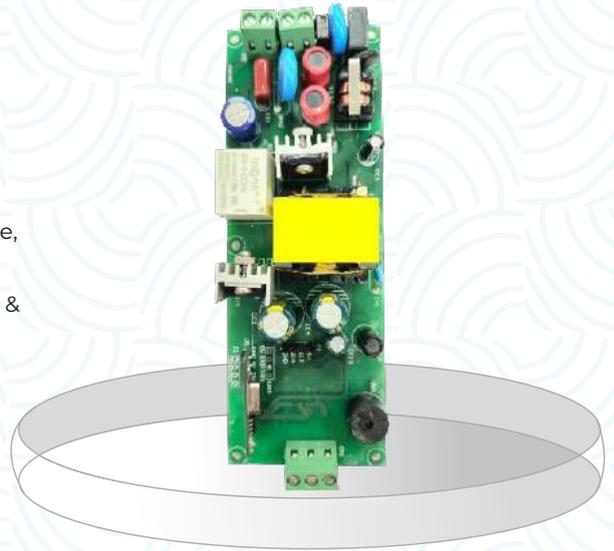
Control option:- RF remote

Indication LED:- 1W LED

RF Frequency: - 433.24 MHZ.

Application: - BLDC Ceiling fan.

Suitable sales regions:- India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name :-** **ST-D514-RF -SL-ECO**

**Description: -** **BLDC Ceiling fan Driver 35W with RF**

**TECHNICAL SPECIFICATION**

Input Voltage Operation: - (100-300) VAC

Max Input Wattage: - 35W

Fan Function: - 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.

Protections: - UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.

Application Motor: - DC 24V

Control Option: - RF remote

RF Frequency: - 433.24 MHZ.

Application: - BLDC Ceiling fan.

Suitable Sales Regions: - India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name :-** **ST-D515-Regulator**

**Description: -** **BLDC Ceiling fan Driver 35W with Regulator**

**TECHNICAL SPECIFICATION**

Input Voltage Operation: - (160-300) VAC

Max Input Wattage: - 35W

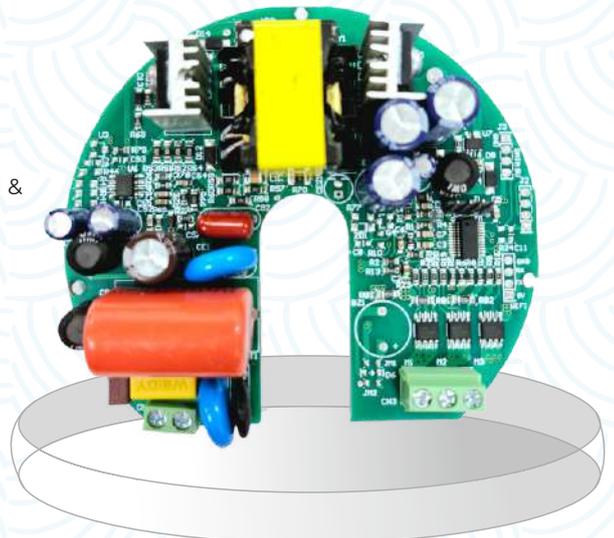
Protections: - UVP, OVP, 440 AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.

Application Motor: - DC 24V

Control mode:- 4/5 steps speed regulation.

Application: - BLDC Ceiling fan.

Suitable sales regions:- India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name : -**

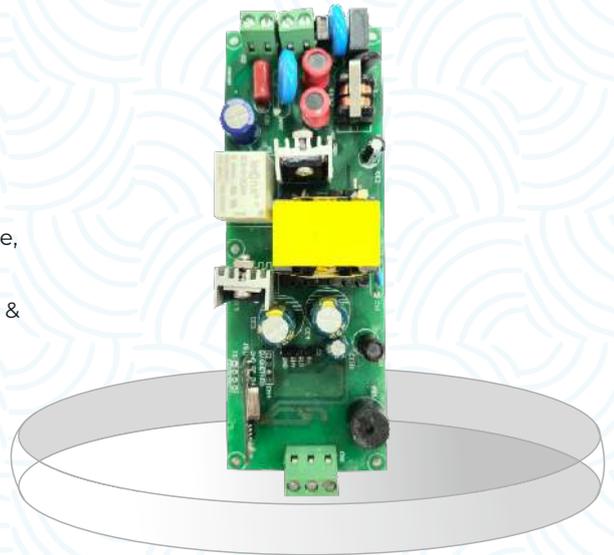
**ST-D516-RF-35W -TPW**

**Description:-**

**BLDC TPW fan Driver 35W with RF**

**TECHNICAL SPECIFICATION**

Input voltage operation:- (100-300) VAC  
MAX Input wattage:- 35W  
Fan function:- 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.  
Protections:- UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.  
Application motor: - DC 24V  
Control option:- RF remote  
RF Frequency: - 433.24 MHZ.  
Application: - BLDC TPW fan.  
Suitable sales regions:- India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name : -**

**ST-D517-RF-40W -TPW**

**Description: -**

**BLDC TPW fan Driver 40W with RF**

**TECHNICAL SPECIFICATION**

Input Voltage Operation: - (100-300) VAC  
Max Input Wattage: - 40W  
Fan Function: - 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.  
Protections: - UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.  
Application Motor: - DC 24V  
Control Option: - RF remote  
RF Frequency: - 433.24 MHZ.  
Application: - BLDC TPW fan.  
Suitable Sales Regions: - India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name : -**

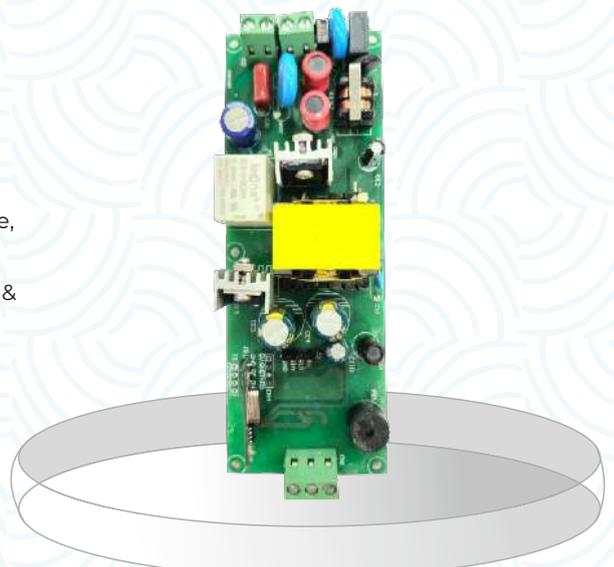
**ST-D518-RF-50W -TPW**

**Description: -**

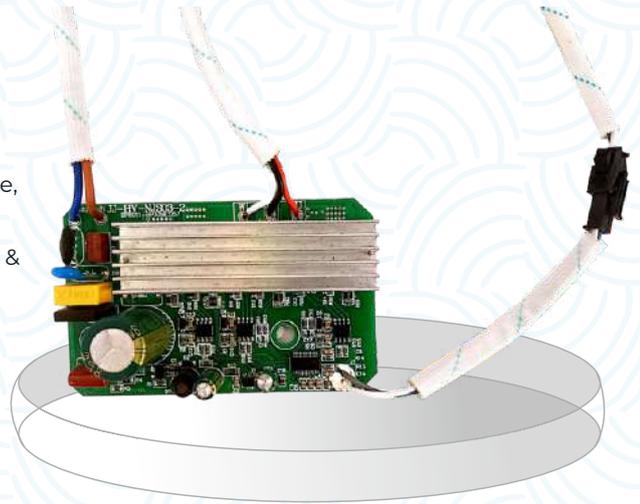
**BLDC TPW fan Driver 50W with RF**

**TECHNICAL SPECIFICATION**

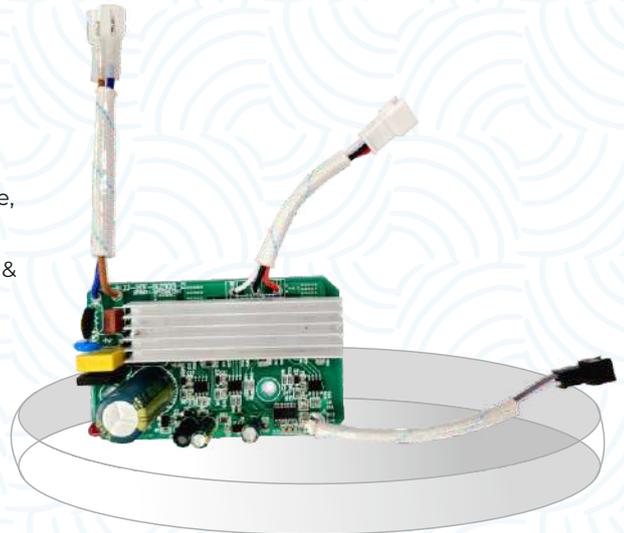
Input Voltage Operation: - (100-300) VAC  
Max Input Wattage: - 50W  
Fan function:- 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.  
Protections: - UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.  
Application Motor: - DC 24V  
Control mode:- RF remote  
RF Frequency: - 433.24 MHZ.  
Application: - BLDC TPW fan.  
Suitable sales regions:- India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name : -** **ST-D519-RF-150W-COOLER MOTOR**  
**Description:-** **BLDC Cooler Motor Driver 150W with RF**  
**TECHNICAL SPECIFICATION**  
Input voltage operation:- (100-300) VAC  
MAX Input wattage:- 150W  
Fan function:- 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.  
Protections:- UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.  
Application motor: - DC 325V  
Control option:- RF Remote  
RF Frequency: - 433.24 MHZ.  
Application: - BLDC Coolers.  
Suitable sales regions:- India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name : -** **ST-D520-RF-100W-COOLER MOTOR**  
**Description: -** **BLDC Cooler Motor Driver 100W with RF**  
**TECHNICAL SPECIFICATION**  
Input Voltage Operation: - (100-300) VAC  
Max Input Wattage: - 100W  
Fan Function: - 6 speed options, forward and reverse, smart mode, boost mode, 2,4,6,8-hour timer options.  
Protections: - UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.  
Application Motor: - DC 325V  
Control Option: - RF Remote  
RF Frequency: - 433.24 MHZ.  
Application: - BLDC Coolers  
Suitable Sales Regions: - India, Sri Lanka, Nepal, Bangladesh, Online Sales.



**Model Name : -** **ST-D521- 500W- Mixer & Grinder**  
**Description: -** **BLDC Mixer & Grinder Driver 500W**  
**TECHNICAL SPECIFICATION**  
Input Voltage Operation: - (100-300) VAC  
Max Input Wattage: - 500 W  
Fan function:- 3 speed options, Reverse.  
Protections: - UVP, OVP, 440AC, 4KV Switching Surge, EFT, EMI & EMC, Overload, motor lock, over current.  
Application Motor: - DC 325V  
Control mode:- Rotary Switch  
RF Frequency: - 433.24 MHZ.  
Application: - BLDC Mixer grinder.  
Suitable sales regions:- India, Sri Lanka, Nepal, Bangladesh, Online Sales.



## TECHNICAL SPECIFICATION

**Model Name :- LED PCB- CCT 15W**  
Input voltage: - 230VAC  
Max input wattage: - 15W  
LED: - CCT  
Surge: - 2.5kv  
Mode: - Toggling  
APPLICATION: - BLDC Ceiling fan.



## TECHNICAL SPECIFICATION

**Model Name :- LED PCB-CCT 20W**  
Input voltage: - 230VAC  
Max input wattage: - 20W  
LED: - CCT  
Surge: - 2.5kv  
Mode: - Toggling  
APPLICATION: - BLDC Ceiling fan.



Driver Box Top View



Driver Box Bottom view

## Our Customers





Quality  
Unique  
Design



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Contact No.: 0120 4526320

