



**玄云动力**  
SWIWIN TURBINE

# SWIWIN SW300Pro

## Technical specifications

(A/2)





## SWIWIN SW300Pro List of engine accessories

| Serial number | Name         | Picture specification                                                                | Quantity |
|---------------|--------------|--------------------------------------------------------------------------------------|----------|
| 1             | Engine       |    | one      |
| 2             | ECU (V4)     |    | one      |
| 3             | GSU          |    | one      |
| 4             | Fixture      |  | one      |
| 5             | Power cable  |  | one      |
| 6             | Signal cable |  | one      |
| 7             | Switch valve |  | one      |



|   |              |                                                                                                                                                            |      |
|---|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 8 | FESTO filter |                                                                          | one  |
| 9 | Tubing       | <br>$\Phi 4 \times \Phi 2.5\text{mm}$<br>$\Phi 6 \times \Phi 4\text{mm}$ | 1.5m |

## Technical parameter

|                                      |                             |
|--------------------------------------|-----------------------------|
| Model                                | SW300Pro                    |
| Thrust                               | 30kg                        |
| Diameter                             | 132mm                       |
| Length                               | 331.4mm                     |
| Engine weight                        | 2560g                       |
| ECU weight                           | 450g                        |
| Total weight (including accessories) | 3490g                       |
| Usage temperature                    | -40℃~50℃                    |
| Supply voltage                       | 4S Lipo battery             |
| Starting system                      | One-button electronic start |
| Rpm Range                            | 38000-98000                 |
| Exhaust Temperature                  | 750℃                        |
| Fuel Consumption                     | 820g/min                    |
| Fuel                                 | kerosene                    |
| Lube oil                             | 3%~5%                       |
| Maintenance Interval                 | 25H                         |

## Engine start parameters

|                    |          |
|--------------------|----------|
| Pump Voltage       | 0.5-1.2V |
| RPM Start Up Ramp  | 100%     |
| Pump Start Up Ramp | 3        |
| Glow Plug          | 6.0-6.8V |
| Valve              | 40       |
| Ignition RPM       | 3000     |
| Preheat RPM        | 4000     |
| RPM Off Starter    | 16000    |

## Engine operating parameters

|                   |                                           |
|-------------------|-------------------------------------------|
| RPM ACC           | 25                                        |
| RPM DEC           | 25                                        |
| Max RPM           | 98000                                     |
| Idle RPM          | 38000                                     |
| Minimum speed     | 20000                                     |
| Max Temp          | 1000                                      |
| Low Volt          | 10V                                       |
| Restart           | close                                     |
| Restart Glow Plug | Consistent with the voltage of the burner |
| Pump Limit        | 15V                                       |

## Engine cooling parameters

|      |         |
|------|---------|
| Cool | 4000rpm |
|------|---------|

## Starting motor parameters

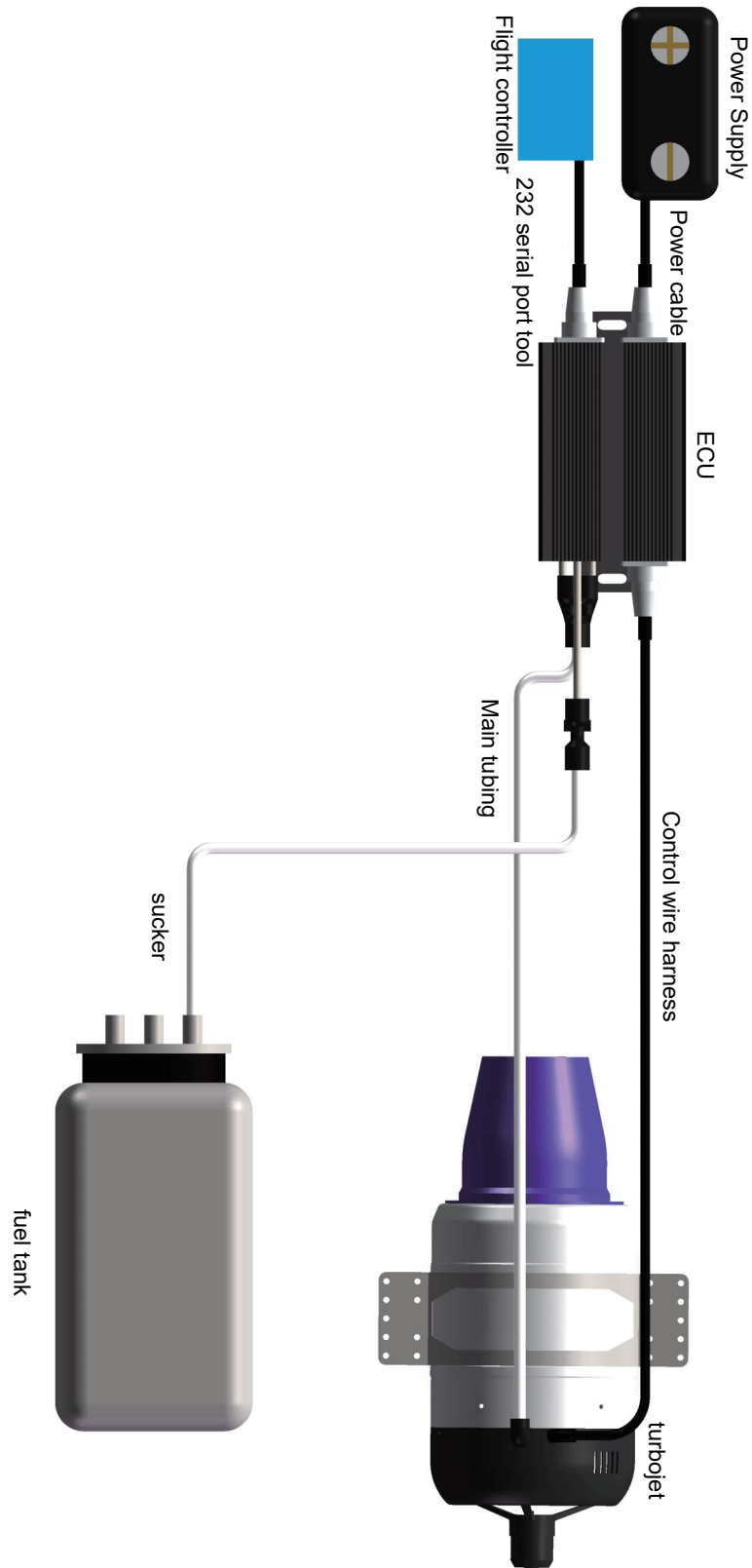
|                  |      |
|------------------|------|
| Pop-up time      | 0.4S |
| Ejection voltage | 3.5  |
| Run Voltage      | 3.5  |

Note: All data are measured at standard air pressure.

When the ambient temperature is too high or the oxygen content in the air is low, too fast acceleration and deceleration will easily lead to flameout failure.

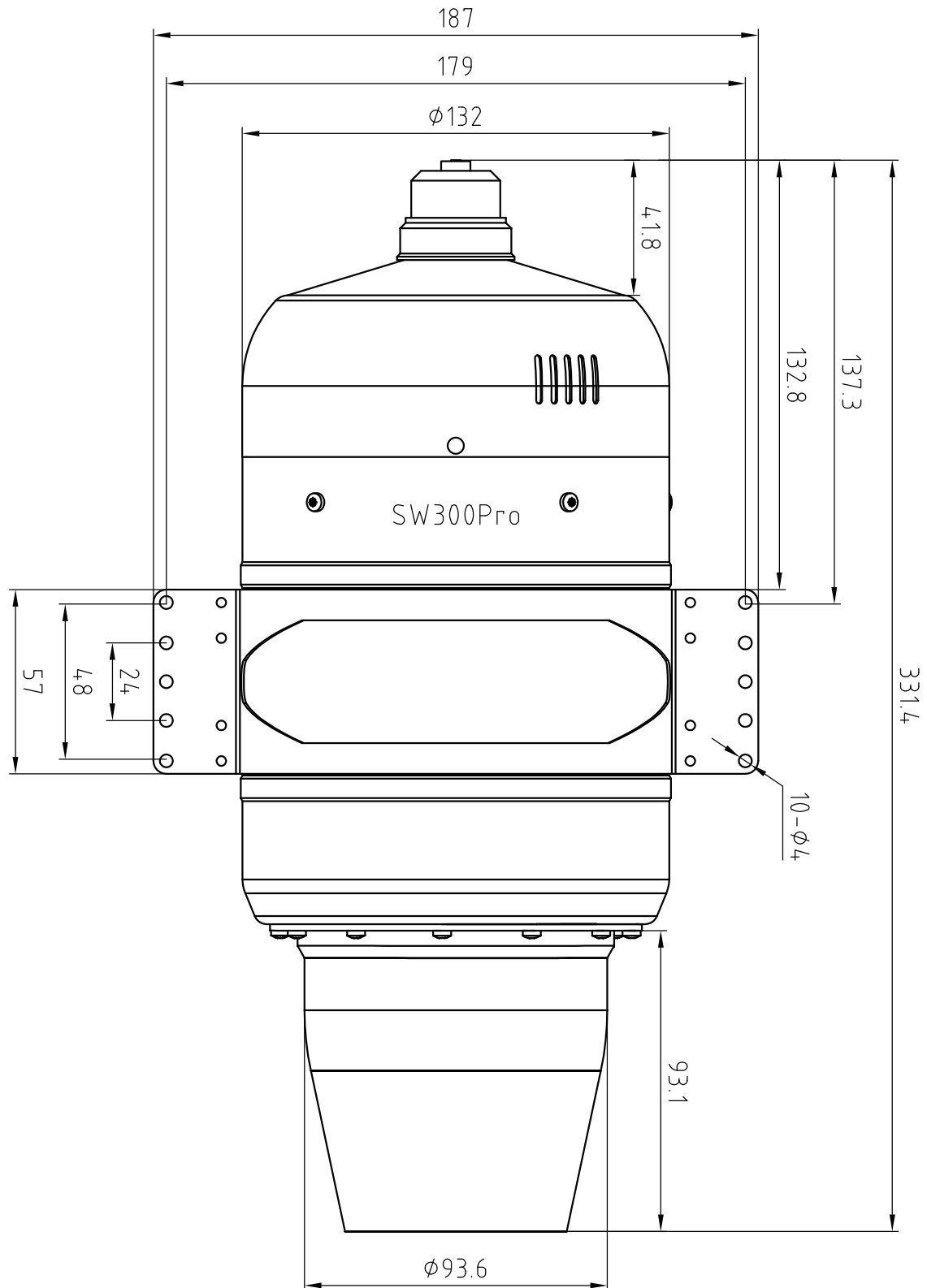


## System connection diagram





## Product dimension diagram



Reference Dimensions of Product Packaging: 42CM×28CM×22CM

Reference Weight: 4.2Kg



## Disclaimer

This product is limited to use in entertainment and civil fields such as aerial model toy flying, competitions, performances, firefighting, road drying and cleaning.

Please strictly follow the provisions of the Export Control Law of People's Republic of China (PRC). It is strictly forbidden to modify the product for illegal use. It is strictly prohibited to resell the product to the export restriction country under the law in china.

Otherwise, all consequences will be at your own risk.