EFFI-CYCLE

>>>DRIVE THE FUTURE<<<

Power Enhancement Season

Motor Kit Specs
Information Document for Motor Kit

A. What's inside the kit

- All motor kits will be provided with following contents:

<table>
<thead>
<tr>
<th>Sno.</th>
<th>Item</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BLDC Motor</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Controller</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Yellow Junction Box</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>General Purpose Wiring Harness</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Key Switch with Meter Assembly</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Handle Bar Accelerator (Throttle) &amp; Foot Pedal Accelerator (Throttle) [Choose any 1 type of throttle]</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Chain-Sprocket Set</td>
<td>1</td>
</tr>
</tbody>
</table>

B. Technical specifications

- Power: Rated- 600Watts, Peak- 1400Watts
- Rated RPM: 500
- Torque: Rated- 10Nm, Peak- 400% of rated power for 10 seconds
- Voltage: 48V
- Current: Rated- 13A, Peak- 32A
- Efficiency: ~ 80% on full load and full RPM
- Protection: IP 33
- Dimensions: 223 mm x 171 mm x 146 mm
- Shaft Diameter: Sprocket- 60 mm, Shaft- 12 mm
- Weight: Controller- 0.55Kg, Motor- 4.60Kg

C. Motor drawing
D. **Wiring diagram**

![Intelligent Brushless Controller Wiring Diagram](image)
E. **Precautions to avoid motor damage**
   - Regular Lubrication
   - Regular Minor Repair (if required)
   - Avoid over loading over 600 kg payload
   - Avoid from Water submersion
   - Avoid Short Circuit
   - Avoid Under voltage & Over voltage power supply
   - Only genuine KTC motor and KTC controller should be used
   - Always use 48V DC battery
   - Follow the colour coding as given in the description video

F. **How to build electric circuit of motor kit**
   - The entire connection tutorial can be found at following link -
     - [https://www.youtube.com/watch?v=ccGljlxEm2w](https://www.youtube.com/watch?v=ccGljlxEm2w)

G. **Cost of the Kit:**

   ![Motor Kit Image](image)

   **(SEGMENT-1 & SEGMENT-2): KTC kit with Hand throttle:**
   
   
   = Approx. Rs 9344 (Freight may vary according to location)

   **(SEGMENT-3): KTC Kit with Foot Throttle:**
   
   
   = Approx. Rs 9920 (Freight may vary according to location)

H. **Payment terms:**

   1. Full Payment to be made directly to supplier at below account details:

   - KTC kit with Hand throttle: 6500 + 28% gst + freight @1024 (100/kg + gst) = 9344
   - KTC Kit with Foot Throttle: 6950 + 28% gst + freight @1024 (100/kg + gst) = 9920

   **The account details for payment are as follows:**

   Name:- Auto Source  
   A/c :- 235605000851  
   Bank:- ICICI Bank  
   Branch:- Moti Nagar New Delhi-110015  
   IFSC Code:- ICIC0002356
2. Teams to make payment & Share Payment details with order type & team ID on efficycle.teams@saenis.org.

3. OC will share dispatch information, as & when updated by supplier. < Teams Don't have to do any follow-up>

4. Payment process to be completed by 15.8.22 so further ordering & Dispatch can start on Time.

I. **Contact Details:**

   Efficycle.teams@saenis.org