



$G_{maxload}$  **Maximum load**  
 $\theta_{max}$  **Maximum pitch angle**  
 $T$  Propeller thrust  
 $N$  Propeller speed  
 $M$  Propeller torque  
 $I_m$  Motor input current  
 $U_m$  Motor input voltage

$E_a$  Motor back-electromotive force  
 $U_e$  ESC input voltage  
 $I_e$  ESC input current  
 $U_{eo}$  ESC output voltage  
 $\sigma_e$  ESC throttle  
 $I_b$  Battery output current  
 $T_b$  **Battery duration time**

(Gray circle) gray item is global variable     $\longleftrightarrow$  solid line is basic function     $\dashleftarrow \dashrightarrow$  dot line is extended function