

## H-ESC

Operating temperature -40°C~65°C 
 Ingress protection IP55 
 BLDC/ FOC dual driver 
 CAN Communication 
 Black box

ESC	H60A-6S	H60A-14S	H60A-14S	H60A-2in1-14S	H60A-2in1-14S	H80A-14S-IPC	H100A-14S-IPC	H120A-14S	H150A-14S	H200A-14S-IPC	H150A-24S	H130A-14S-IPC	H300A-24S
Drive Mode	FOC/BLDC	BLDC	FOC	BLDC	FOC	BLDC	FOC	FOC	FOC	BLDC/FOC	FOC	BLDC/FOC	BLDC/FOC
Recommended Battery	6S	12~14S	12~14S	12~14S	12~14S	12~14S	12~14S	12~14S	12~14S	12~14S	24S	14S	24S
Weight( without cable)	55g	67g	70g	118g	125g	87g	144g	185g	198g	270g	464g	148g	850g
Continuous Current <small>(Non-hermetic Ambient Temperature &lt;math&gt;\leq 60^{\circ}\text{C}&lt;/math&gt;)</small>	40A	25A	25A	15A	15A	40A	40A	60A	60A	100A	50A	60A	140A
Maximum Current <small>(Non-hermetic Ambient Temperature &lt;math&gt;\leq 60^{\circ}\text{C}&lt;/math&gt;)</small>	60A	60A	60A	60A	60A	100A	100A	120A	150A	200A	150A	150A	300A
Optional Signal Isolation Mode	Throttle	Throttle	Throttle	Throttle& COMM	Throttle& COMM	Throttle	Throttle	Throttle	Throttle& COMM	Throttle& COMM	Throttle& COMM	Throttle& COMM	Throttle& COMM
Throttle Pulse Width	1100-1940 $\mu\text{s}$	1100-1940 $\mu\text{s}$	1100-1940 $\mu\text{s}$	1100-1940 $\mu\text{s}$	1100-1940 $\mu\text{s}$	1100-1940 $\mu\text{s}$	1100-1940 $\mu\text{s}$	1100-1940 $\mu\text{s}$	1100-1940 $\mu\text{s}$	1100-1940 $\mu\text{s}$	1100-1940 $\mu\text{s}$	1100-1940 $\mu\text{s}$	1100-1940 $\mu\text{s}$
Failure Storage Mode	Log+Fault code	Log+Fault code	Log+Fault code	Log+Fault code	Log+Fault code	Log+Fault code	Log+Fault code	Log+Fault code	Log+Fault code	Log+Fault code	Log+Fault code	Log+Fault code	Log+Fault code
Size	71*32.2*16mm	78.5*32.5*17.6mm	75*35.5*20.3mm	77.5*47*26.8mm	77*55*23mm	84*35*20mm	83*59*27.4mm	113*56*25.9mm	116*49.4*29.6mm	116*56*31.5mm	164*66*38mm	96.5*46*23.5mm	175*76*47mm



Throttle port isolation: The throttle port is common GND with the +5V input port, but isolated with the ESC power GND.  
 Communication port isolation: Throttle port and CAN port are common GND with the +5V input port, but isolated with the ESC power GND.  
 Throttle port& communication ports isolation: Throttle port, CAN port/UART port are isolated with the battery GND.

## HM-Motor for Multi-copter

High efficiency and energy saving 
 Light weight 
 Diversified design 
 \* KV optional 
 UL:Ultra light, HP:High protection

HM-Motor	HM-4006-HP	HM-4006-UL	*HM-5208-HP	*HM-5208-UL	*HM-6208-UL	HM-6210-HP	*HM-6215-HP	*HM-8108-HP	*HM-8108-UL	*HM-8110-HP	*HM-8110-UL	HM-9610-HP	HM-9620-HP	*HM-10005-UL	HM-13830-HP	*HM-13842-HP
KV	350KV	350KV	320KV	340KV	155KV	130KV	160KV	85KV	100KV	110KV	95KV	120KV	120KV	100KV	42KV	34KV
Recommended Propeller	16/17inch	16/17inch	20/21inch	17/18/19inch	22inch	22inch	21/22inch	29/30/32inch	28/29/30inch	28/29/30inch	29/30/32inch	30inch	34inch	30/32inch	47/48inch	57/63inch
Recommended Battery	6S	6S	6S	6S	12S	12S	12S	12S	12S	12S	12S	12S	12S	12S	24S	24S
Maximum Current <small>(Non-hermetic Ambient Temperature &lt;math&gt;\leq 60^{\circ}\text{C}&lt;/math&gt;)</small>	15.7A	17.6A	41.9A	35A	28.7A	25A	39A	27.2A	34.3A	39.2A	43.2A	65A	120A	43A	138A	186A
Weight(INCL cable)	71g	66g	166g	154g	165g	220g	307g	270g	251g	324g	292g	504g	803g	285g	3180g	3950g
Max Thrust	2.2kg	2.3kg	5.4kg	4.6kg	7.0kg	6.5kg	9.2kg	8.4kg	9.5kg	11kg	11.3kg	15.7kg	25.6kg	11kg	63.2kg	92.7kg
Recommended Takeoff Weight	0.9kg	1.0kg	1.8kg	1.8kg	2.5kg	2.5kg	3.5kg	3.0kg	3.5kg	4kg	4kg	7kg	11kg	4.5kg	25kg	40kg
Rated Efficiency	10.6g/W	10.0g/W	9.9g/W	9.0g/W	9.7g/W	9.3g/W	8.1g/W	11.3g/W	10.4g/W	10.1g/W	10.4g/W	7.9g/W	7.2g/W	10.3g/W	6.8g/W	8.4g/W
Recommended ESC	H60A-6S	H60A-6S	H60A-6S	H60A-6S	H60A-14S	H60A-14S	H60A-14S	H60A-14S	H60A-14S	H60A-14S	H60A-14S	H80A/H100A-14S	H130A-14S	H60A-14S	H150A-24S	H300A-24S

## HV-Motor for E-VOTL

High thrust / motor weight ratio 
 High explosive thrust 
 Prop positioning 
 \* Prop positioning optional 
 IPC: Intelligent propeller control

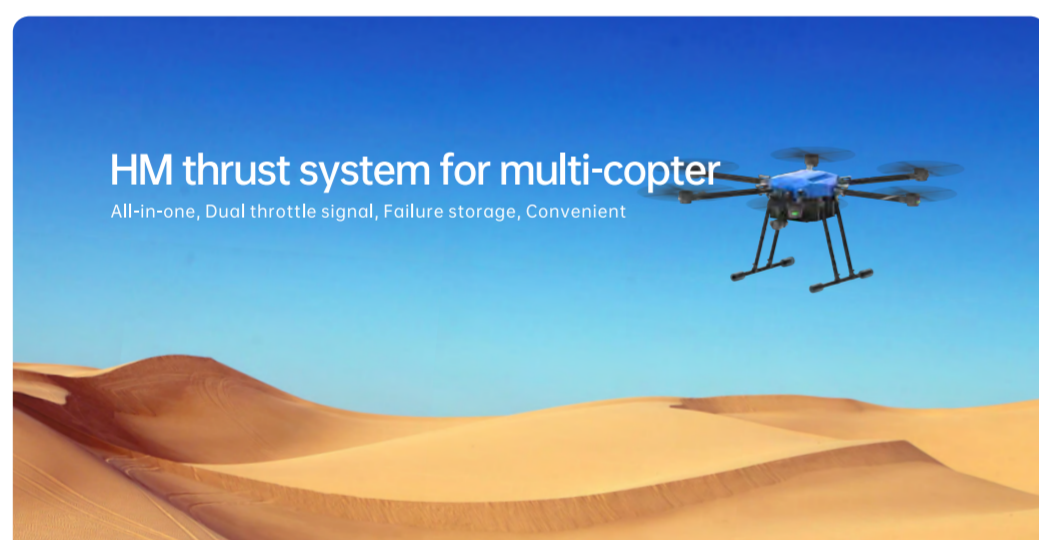
HV-Motor	*HV-5212	HV-6212	*HV-6215	HV-8114	*HV-8014	*HV-8017	HV-8120	*HV-9616	*HV-9626	HV-11122	*HV-11130
KV	275KV	210KV	210KV	170KV	170KV	160KV	160KV	165KV	160KV	60KV	55KV
Recommended Propeller	16/17inch	22Inch	22inch	28/29inch	26/27/28inch	27/28/29inch	30/32inch	28/29inch	30/32inch	40/42inch	42inch
Recommended Battery	12S	12S	12S	12S	12S	12S	12S	12S	12S	24S	24S
Maximum Current <small>(Non-hermetic Ambient Temperature &lt;math&gt;\leq 60^{\circ}\text{C}&lt;/math&gt;)</small>	55A	76.5A	82A	106A	125A	130A	145.5A	153.5A	220A	137.7A	135A
Weight(INCL cable)	248g	308g	354g	482g	555g	626g	630g	697g	965g	1331g	1647g
Max Thrust	9.1kg	12.3kg	13.8kg	19.3kg	20.9kg	22.5kg	24.3kg	25.5kg	36.5kg	49.5kg	55kg
Recommended Takeoff Weight	3.5kg	4.5kg	6kg	8kg	7kg	10kg	12kg	11kg	16kg	23kg	26kg
Rated Efficiency	6.1g/W	7.0g/W	6.2g/W	6.7g/W	7.0g/W	6.2g/W	6.2g/W	6.0g/W	5.5g/W	6.1g/W	7.2g/W
Recommended ESC	H60A-14S/ H80A-14S-IPC	H80A-14S	H60A-14S/ H80A-14S-IPC	H100A-14S	H100A/ H130A-14S-IPC	H100A/ H130A-14S-IPC	H130A/ H150A-14S-IPC	H150A/ H200A-14S-IPC	H200A-14S-IPC	H150A-24S	H150A-24S-IPC



Ultra light



High protection



### HM thrust system for multi-copter

All-in-one, Dual throttle signal, Failure storage, Convenient

HM-Thrust	H6M-6210	H8M-8108	H11M-Coaxial-11122
KV	130KV	85KV	70KV
Propeller	22inch	30inch	48inch
Recommended Battery	12S	12S	14S
Maximum Current <small>(Non-hermetic Ambient Temperature &lt;math&gt;\leq 60^{\circ}\text{C}&lt;/math&gt;)</small>	23A	22A	207A
Drive Mode	FOC	FOC	FOC
Throttle Pulse Width	1100-1940 $\mu\text{s}$	1100-1940 $\mu\text{s}$	1100-1940 $\mu\text{s}$
Failure Storage	Yes	Yes	Yes
Weight(INCL cable)	421g	529g	5175g
Max Thrust	6.5kg	7.5kg	57.5kg
Recommended Takeoff Weight	2.5kg	3.0kg	28kg
Rated Efficiency	9.3g/W	10.7g/W	8.0g/W



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## CONVENIENT/ INTELLIGENT/ STABLE

H series — Industrial UAV thrust systems product manual



FOC



Prop positioning



Black box



Dual throttle



CAN