

Product Catalog

Shenzhen Honyee Technology Co., Ltd.

V25002

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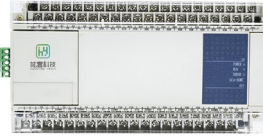
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I PLC - Programmable Logic Controller

I.1 Compact PLC HT10/ HT20 Series

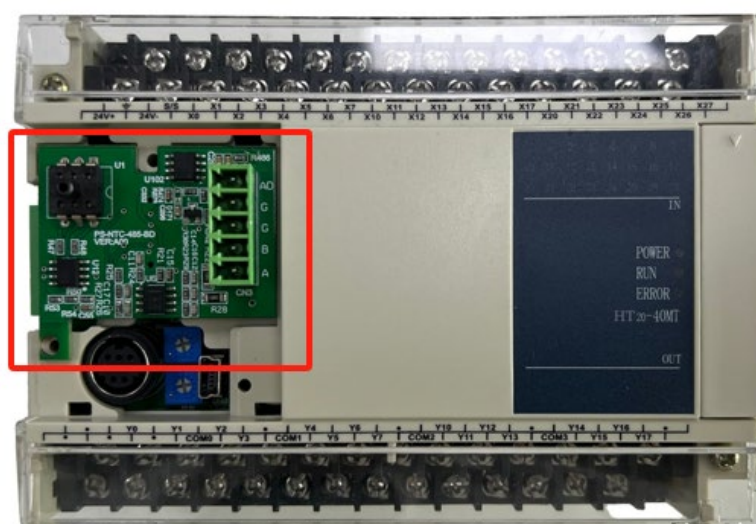
I.1.1 Product Specifications

Series	HT10 Series	HT20 Series
Image		
Input	24VDC, NPN input	
Output	Transistor or relay or mixed	
I/O	12/8, 16/14	24/16, 36/24
Analog I/O	2AI/1AO, 4AI	2AI/1AO, 4AI, 8AI or others
High speed count input	2*50K, 6*10K single-phase counting or 1*30K, 2*5K dual- phase counting	
High speed pulse output	3*100KHz	4*100KHz
Linear and circular interpolation	Yes	
Electronic cam	Yes	
COM port	2*RS232, 1*RS485	
Load cell	Optional 2* load cells	
Ethernet	/	/
Expansion	Optional 1 expansion card	Optional 1 card and 24 modules
Software	GX Works2 or GC Studio	

I.1.2 Product Models

Series	Model	DI/DO	Output type	AI/AO
HT10 Series	HT10-20MT	12/8	Transistor	/
	HT10-20MR	12/8	Relay	/
	HT10-30MT	16/14	Transistor	/
	HT10-30MR	16/14	Relay	/
HT20 Series	HT20-40MT	24/16	Transistor	/
	HT20-40MR	24/16	Relay	/
	HT20-60MT	36/24	Transistor	/
	HT20-60MR	36/24	Relay	/

I.1.3 PLC Expansion Cards



Model	Specifications
HT10-4EX-BD	4 digital inputs
HT10-4EY-BD	4 digital transistor outputs

Model	Specifications
HT10-3AM-BD	2 analog inputs and 1 analog output Input: optional 0~10V, 4~20mA, PT100 Output: optional 0~10V/4~20mA
HT10-4AD-BD	4 analog inputs, optional 0~10V, 4~20mA, PT100
HT10-485-DA-BD	RS485 communication + 1 analog output, RS485 communication baud rate can be set, analog output supports 0~10V, 4~20mA
HT10-CAN-BD	CANbus communication + 1 analog input, CANbus communication baud rate can be set, analog input supports 0~10V, 4~20mA, PT100

I.2 Expandable U Series PLC

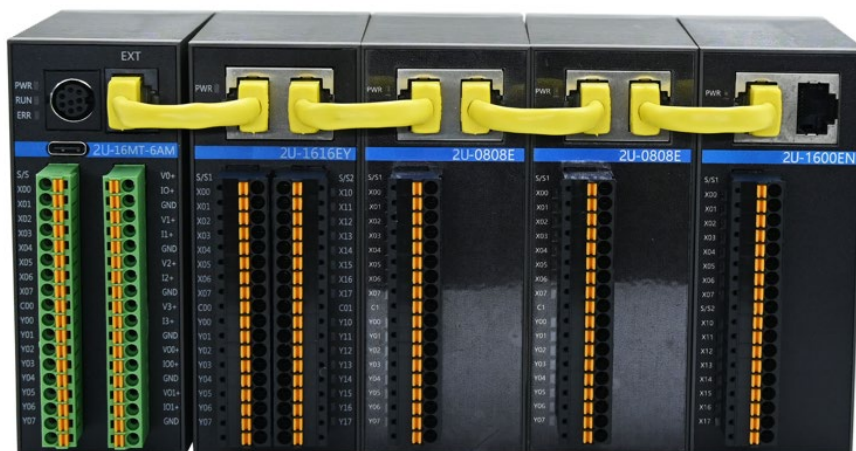
I.2.1 Product Specifications

Series	HT1U	HT2U	HT3U
Image			
Input	24VDC, NPN inptut		
Output	Transistor or relay or mixed		
I/O	8/8, 16/16		
Analog I/O	4AI/2AO	4AI/2AO, 4AI, 8AI or others	
High speed count input	2*50K, 6*10K single-phase counting or 1*30K, 2*5K dual- phase counting		
High speed pulse output	4*100KHz		
Linear and circular interpolation	Yes		
Electronic cam	Yes		
COM port	1*RS232, 2*RS485		
Ethernet	/	/	1
Expandable	/	Optional maximum 24 modules	
Software	GX Works2 or GC Studio		

I.2.2 Product Models

Series	Model	DI/DO	Output type	AI/AO
HT1U series	HT1U-16MT	8/8	Transistor	/
	HT1U-16MR	8/8	Relay	/
	HT1U-32MT	16/16	Transistor	/
	HT1U-32MR	16/16	Relay	/
	HT1U-16MT-6AM	8/8	Transistor	4/2
	HT1U-16MR-6AM	8/8	Relay	4/2
HT2U series	HT2U-32MT	16/16	Transistor	/
	HT2U-32MR	16/16	Relay	/
	HT2U-16MT-6AM	8/8	Transistor	4/2
	HT2U-16MR-6AM	8/8	Relay	4/2
HT3U series	HT3U-16MT	8/8	Transistor	/
	HT3U-16MR	8/8	Relay	/
	HT3U-32MT	16/16	Transistor	/
	HT3U-32MR	16/16	Relay	/
	HT3U-16MT-6AM	8/8	Transistor	4/2
	HT3U-16MR-6AM	8/8	Relay	4/2

I.3 PLC Expansion Modules



Model	Specifications
HT2U-0016ET	16 transistor outputs
HT2U-16ET-6AM	16 transistor outputs 4AI/ 2AO
HT2U-1600EN	16 digital inputs
HT2U-0808ET	8DI/8DO, transistor outputs
HT2U-0808ER	8DI/8DO, relay outputs
HT2U-0808ET-6AM	8DI/8DO, transistor outputs 4AI/ 2AO
HT2U-1616ET	16DI/16DO, transistor outputs
HT2U-1616ER	16DI/16DO, relay outputs
HT2U-2408ET	24DI/8DO, transistor outputs
HT2U-0824ET	8DI/24DO, transistor outputs
HT2U-2AD4DA	2AI/4AO, 0-10V/ 4-20mA
HT2U-4AD	4AI, 0-10V/ 4-20mA
HT2U-8AD	8AI, 0-10V/ 4-20mA
HT2U-4AD-PT	4AI for 2-wire PT

Model	Specifications
HT2U-8AD-PT	8AI for 2-wire PT
HT2U-8TC	8AI for thermocouples K/J/N/E/T/R/S
HT2U-4PG	4 positioning control module, or 8DI/8DO
HT2U-4PG-0808E	4 positioning control modules + 8DI/8DO expansion

II PLC+HMI All-in-one

II.1 HT Series



		Model	HT043M-26T-4AM	HT070M-48T	HT070M-48C	HT070M-32T	HT070M-32C
Specifications							
Display	Size	4.3"	7"				
	Resolution	480*272 pixels	800*480 pixels				
	Panel	4-wire high-precision touch panel					
	Color	260,000					
	Backlight	LED					
	Contrast	400:1					
	Brightness	400cd/m²					
Structure	Dimension	128*86*36mm	203*149*36mm				
	Cut-out size	129*78mm	192*138mm				
	Net weight	0.4kg	0.8kg				
Housing Material		ABS+PC					
Protection level		IP65 (front panel)					
Supply	Voltage	DC24V(±15%)					

Specifications	Model	HT043M-26T-4AM	HT070M-48T	HT070M-48C	HT070M-32T	HT070M-32C
	Power	6W	10W			
	Memory	128M FLASH/64M DDR				
	CPU	ARM9 400MHz RISC				
	Digital inputs	14	24	24	16	16
	Digital outputs	12T	24T	8T 16R	16T	8T 8R
	Analog inputs and outputs	2AI/ 2AO	8AI or 6AI 2AO or 4AI 4AO			
	AI type	0-10V as default (can customize 0-20mA, PT100, NTC)				
	AO type	0-10V				
	RS485	1				
	High speed inputs	2*50KHz (X0/X1), 6*10KHz (X2~X7)				
	High speed outputs	4* 100KHz (Y0~Y3)				
	RTC	Capacitance retention (2 months retention)				
	Program capacity	12K	24K			
	Digital register	D0~D7999	D0~D7999			
	Power retention	User settings, 6kByte				
Interface	USB-mini	PLC programming download port				
	USB-A	USB flash drive upgrade, data backup				
Test		- Hi-pot test 1000V, 1 minute - Static test level 4 ±8000V - Complies with EN55022 and EN55024 standards - Compliant with FCC, Class A				
	Working	-10~60°C				

Specifications		Model	HT043M-26T-4AM	HT070M-48T	HT070M-48C	HT070M-32T	HT070M-32C
Environment	temp.						
	Working humidity	10~90% RH					
	Mechanical vibration	10-25Hz (XYZ direction 2g/30min)					
Software		HMI: HmiDesigner Pro PLC: GX Works2 or GCStudio					

II.2 HQ Series



II.2.1 Product Specifications

Series	HQ043M	HQ043M-22T/22C	HQ050M	HQ070M	HQ070M-48T/48C	HQ100M
Dimension	134*102*34mm	134*102*34mm	151*96*36mm	200*146*36mm	200*146*36mm	275*194*36mm
Cutout size	120*94mm	120*94mm	143*86mm	192*138mm	192*138mm	262*180mm
Input	24VDC	24VDC	24VDC	24VDC	24VDC	24VDC
Power Consumption	4-6W	4-6W	5-7W	6-7W	6-7W	6-8W
HMI						
Feature	60K colors resistive touch screen, supports portrait display					
Type	4.3"TFT	4.3"TFT	5"TFT	7.0"TFT	7.0"TFT	10.1"TFT
Display size	97*56mm	97*56mm	108*65mm	154*87mm	154*87mm	222*125mm
Resolution(pixels)	480*272	480*272	800*480	800*480	800*480	1024*600
RAM	64MB	64MB	64MB	64MB	64MB	64MB
ROM	NOR Flash 8MB	NOR Flash 8MB	NOR Flash 8MB	NOR Flash 16MB	NOR Flash 16MB	NOR Flash 16MB
CPU	32bit CPU 408MHz	32bit CPU 408MHz	32bit CPU 408MHz	32bit CPU 408MHz	32bit CPU 408MHz	32bit CPU 408MHz
COM ports	Type C, RS232	Type C, RS232	Type C, RS232	Type C, RS232	Type C, RS232	Mini Type B, RS232
Software	TPWorks	TPWorks	TPWorks	TPWorks	TPWorks	TPWorks

PLC						
I/O level	Input: Passive NPN, public terminal isolated					
	Transistor output: Low level NPN, COM connect to negative (HQ043M-22T/22C Y0, Y1 and HQ070M-48T/48C Y0-Y13 are fixed T output, DC24V active NPN output)					
	Relay output: Normally open dry contact					
AI type	Optional on PLC hardware:					
	Thermocouple E/E_/K/K_/S/S_/T/T_/J/J_/ PT100/ PT1000/ NTC10K/ NTC50K/ NTC100K 0~10V/ 0~5V/ -5V~5V/ -10V~10V 0~20mA/ 4~20mA Mixed					
	(“HQ043M-22T/22C” and “HQ070M-48T/48C” come with 2 channels of voltage 0-10V+2 channels of current 0-20mA+1 channel NTC10K)					
AO type	Optional on PLC hardware:					
	0~10V /0~5V/ -5~5V/ -10~10V (2AO for 1 minus voltage) 0~20mA/ 4~20mA Mixed					
	(“HQ043M-22T/22C” is 1 voltage 0-10V + 1 current 0-20MA outputs. “HQ070M-48T/48C” is 2 current 0-20MA outputs)					
High-speed counting	Single phase 6 channel 60KHz, or 2 AB 60KHz + 1 AB 10KHz, or 2 ABZ 60KHz + 1 AB phase 10KHz					
	(“HQ043M-22T/22C” and “HQ070M-48T/48C” : 2-channel single-phase 60KHz+4 channels 10KHz or 1 channel AB(Z) phase 30KHz +1 channel AB(Z) phase 5KHz)					
High-speed pulse	8 channels, Y0-Y3 is 100KHz, Y4-Y7 is 10KHz.					
	(“HQ043M-22T/22C” : 4 channels Y0-Y1 is 100KHz, Y2-Y3 is 10KHz; “HQ070M-48T/48C” : 4-channel Y0-Y1 is 100KHz, Y2-Y3 is 50KHz)					
COM port	1x TYPE-C,1x RS232,1x RS485	1x TYPE-C,1x RS232,1x RS485	1x TYPE-C,1x RS232,1x RS485	1x TYPE-C,1x RS232,1x RS485	1x TYPE-C,1x RS232,1x RS485	1x mini USB,1x RS232,1x RS485
Software	GX Developer8.86 or GX WORKS 2					

II.2.2 Product Models

Model	Size	DI/DO	Output	AI/AO
HQ043M-24R	4.3"	12/12	Relay	/
HQ043M-24T	4.3"	12/12	Transistor	/
HQ043M-24R-4AI2AO	4.3"	12/12	Relay	4AI/2AO
HQ043M-24T-4AI2AO	4.3"	12/12	Transistor	4AI/2AO
HQ043M-22T	4.3"	12/10	Transistor	5AI: 2V 2A 1NTC10K 2AO: 1V 1A
HQ043M-22C	4.3"	12/10	2T+8R	5AI: 2V 2A 1NTC10K 2AO: 1V 1A
HQ050M-24R	5"	12/12	Relay	/
HQ050M-24T	5"	12/12	Transistor	/

Model	Size	DI/DO	Output	AI/AO
HQ050M-24R-4AI2AO	5"	12/12	Relay	4AI/2AO
HQ050M-24T-4AI2AO	5"	12/12	Transistor	4AI/2AO
HQ070M-24R	7"	12/12	Relay	/
HQ070M-44C	7"	24/20,	4T+16R	/
HQ070M-44T	7"	24/20	Transistor	/
HQ070M-44C-12AI8AO	7"	24/20	4T+16R	12AI/8AO
HQ070M-44T-12AI8AO	7"	24/20	Transistor	12AI/8AO
HQ070M-48T	7"	24/24	Transistor	5AI: 2V 2A 1NTC10K 2AO: 1V 1A
HQ070M-48C	7"	24/24	12T+12R	5AI: 2V 2A 1NTC10K 2AO: 1V 1A
HQ070M-60C	7"	30/30	4T+26R	/
HQ070M-60T	7"	30/30	Transistor	/
HQ070M-60C-5AI2AO	7"	30/30	4T+26R	5AI2AO
HQ070M-60T-5AI2AO	7"	30/30	Transistor	5AI2AO
HQ100M-24R	10"	12/12	Relay	/
HQ100M-44C	10"	24/20	4T+16R	/
HQ100M-44T	10"	24/20	Transistor	/
HQ100M-44C-12AI8AO	10"	24/20	4T+16R	12AI8AO
HQ100M-44T-12AI8AO	10"	24/20	Transistor	12AI8AO
HQ100M-60C	10"	30/30	4T+26R	/
HQ100M-60T	10"	30/30	Transistor	/
HQ100M-60C-5AI2AO	10"	30/30	4T+26R	5AI2AO
HQ100M-60T-5AI2AO	10"	30/30	Transistor	5AI2AO

III HMI - Human Machine Interface

III.1 Basic version

Model	HT0401B	HT0701B	HT1001B
Picture			
Display			
LCD view angle (T/B/L/R)	50°/60°/60°/60°	50°/60°/60°/60°	50°/60°/60°/60°
Panel	4.3" TFT LCD	7" TFT LCD	10.1" TFT LCD
Resolution	480×272	800×480	1024×600
Color	24-bit (16,770,000 colors)	24-bit (16,770,000 colors)	24-bit (16,770,000 colors)
Brightness	300 cd/m ²	300 cd/m ²	300 cd/m ²
Back light	LED	LED	LED
LCD life	20,000 hours	20,000 hours	20,000 hours
Touch panel	4-wire industrial resistive touch screen	4-wire industrial resistive touch screen	4-wire industrial resistive touch screen
CPU			
CPU	ARM Cortex-A7 dual-core 1.2GHz	ARM Cortex-A7 dual-core 1.2GHz	ARM Cortex-A7 dual-core 1.2GHz
Memory			
Memory	128M Flash + 64M DDR3	128M Flash + 128 DDR3	128M Flash + 128 DDR3
RTC			
RTC	Built-in RTC	Built-in RTC	Built-in RTC
COM port			
Ethernet	No	No	No

Model	HT0401B	HT0701B	HT1001B
USB terminal	1 USB Host 2.0	1 USB Host 2.0	1 USB Host 2.0
Serial COM port	COM1: RS232/RS485	COM1: RS232/RS485	COM1: RS232/RS485
Supply			
Rated power	< 3W	< 7W	< 10W
Rated voltage	DC24V, working range DC 9V~28V	DC24V, working range DC 9V~28V	DC24V, working range DC 9V~28V
Protection	No isolation	No isolation	No isolation
Allow power failure	< 5mS	< 5mS	< 5mS
Structure			
PCB coating	No	No	No
Dimension	128*102*36mm	202*165*43mm	272*215*43mm
Cut-out size	120*94mm	192*138mm	260*202mm
Mechanical structure	Engineering Plastics	Engineering Plastics	Engineering Plastics
Protection	Front panel: IP65 Rear cover: IP20	Front panel: IP65 Rear cover: IP20	Front panel: IP65 Rear cover: IP20
Weight	≈0.3kg	≈0.6kg	≈1kg
Installation	Panel embedded	Panel embedded	Panel embedded
Environment			
Working temp.	0~50°C	0~50°C	0~50°C
Storage temp.	-20~60°C	-20~60°C	-20~61°C
Humidity	10~90%RH (non-condensing)	10~91%RH (non-condensing)	10~92%RH (non-condensing)
Shock resistance	10~25Hz (X, Y, Z directions 2G/30 mins)	10~25Hz (X, Y, Z directions 2G/31 mins)	10~25Hz (X, Y, Z directions 2G/32 mins)
Cooling method	Natural air cooling	Natural air cooling	Natural air cooling
Certification			
Certification	Compliant with CE certification standards	Compliant with CE certification standards	Compliant with CE certification standards
Software			
Software	Easy Manager PRO V2.02 or above	Easy Manager PRO V2.02 or above	Easy Manager PRO V2.02 or above

III.2 General version



Model		HT0401G	HT0701G	HT1001G
Display	LCD view angle (T/B/L/R)	60°/75°/75°/75°	60°/75°/75°/75°	60°/75°/75°/75°
	Panel	4.3" TFT LCD	7" TFT LCD	10.1" TFT LCD
	Resolution	480×272 (HT0402G 800×272)	800×480 (HT0702G 1024×600)	1024×600
	Color	24-bit (16,770,000 colors)	24-bit (16,770,000 colors)	24-bit (16,770,000 colors)
	Brightness	400 cd/m ²	400 cd/m ²	400 cd/m ²
	Back light	LED	LED	LED
	LCD life	35,000 hours	35,000 hours	35,000 hours
Touch panel		4-wire industrial resistive touch screen	4-wire industrial resistive touch screen	4-wire industrial resistive touch screen
CPU		ARM Cortex-A7 dual-core 1.2GHz	ARM Cortex-A7 dual-core 1.2GHz	ARM Cortex-A7 dual-core 1.2GHz
Memory		128M Flash + 128M DDR3	128M Flash + 128M DDR3	128M Flash + 128M DDR3
RTC		Built-in RTC	Built-in RTC	Built-in RTC
COM port	Ethernet	Optional 1 * 10M/100M adaptive	Optional 1 * 10M/100M adaptive	Optional 1 * 10M/100M adaptive
	USB terminal	1 USB Host 2.0	1 USB Host 2.0	1 USB Host 2.0
	Serial COM port	COM1: RS232	COM1: RS232	COM1: RS232
		COM2: RS485/RS422	COM2: RS485/RS422	COM2: RS485/RS422
		COM3: RS485	COM3: RS485	COM3: RS485
IoT		Optional support 4G or WIFI expansion	Optional support 4G or WIFI expansion	Optional support 4G or WIFI expansion
Supply	Rated power	< 3W	< 10W	< 10W

Model		HT0401G	HT0701G	HT1001G
	Rated voltage	DC24V, working range DC 12V~28V	DC24V, working range DC 12V~28V	DC24V, working range DC 12V~28V
	Protection	Lightning surge protection	Lightning surge protection	Lightning surge protection
	Allow power failure	< 5mS	< 5mS	< 5mS
Structure	PCB coating	No (can customize)	No (can customize)	No (can customize)
	Dimension	128*102*36mm	202*165*43mm	272*215*43mm
	Cut-out size	120*94mm	192*138mm	260*202mm
	Mechanical structure	Engineering Plastics	Engineering Plastics	Engineering Plastics
	Protection	Front panel: IP65 Rear cover: IP20	Front panel: IP65 Rear cover: IP20	Front panel: IP65 Rear cover: IP20
	Weight	≈0.5kg	≈0.8kg	≈1.2kg
	Installation	Panel embedded	Panel embedded	Panel embedded
Environ- ment	Working temp.	0~50℃	0~50℃	0~50℃
	Storage temp.	-20~60℃	-20~60℃	-20~60℃
	Humidity	10~90%RH (non-condensing)	10~90%RH (non-condensing)	10~90%RH (non-condensing)
	Shock resistance	10~25Hz (X, Y, Z directions 2G/30 mins)	10~25Hz (X, Y, Z directions 2G/30 mins)	10~25Hz (X, Y, Z directions 2G/30 mins)
	Cooling method	Natural air cooling	Natural air cooling	Natural air cooling
Certification		Compliant with CE certification standards	Compliant with CE certification standards	Compliant with CE certification standards
Software		Easy Manager PRO V2.02 or above	Easy Manager PRO V2.02 or above	Easy Manager PRO V2.02 or above

III.3 Professional version



Model	HT0702PE	HT1001PE	HT1501PE
Display	LCD view angle (T/B/L/R)	80°/80°/80°/80°	80°/80°/80°/80°
	Panel	7" TFT LCD	10.1" TFT LCD
	Resolution	1024×600	1024×600
	Color	24-bit (16,770,000 colors)	24-bit (16,770,000 colors)
	Brightness	600 cd/m²	600 cd/m²
	Back light	LED	LED
	LCD life	50000 hours	50000 hours
Touch panel	4-wire industrial resistive or high voltage capacitive touch screen	4-wire industrial resistive or high voltage capacitive touch screen	4-wire industrial resistive or high voltage capacitive touch screen
CPU	ARM Cortex-A7 dual-core 1.2GHz or ARM Cortex-A53 quad-core 1.5GHz	ARM Cortex-A7 dual-core 1.2GHz or ARM Cortex-A53 quad-core 1.5GHz	ARM Cortex-A53 quad-core 1.5GHz
Memory	128M Flash + 128 DDR3 or 1G Flash +8G DDR3	128M Flash + 128 DDR3 or 1G Flash +8G DDR3	1G Flash +8G DDR3
RTC	Built-in RTC	Built-in RTC	Built-in RTC
COM port	Ethernet	1* 10M/100M adaptive	2* 10M/100M adaptive
	USB terminal	1* USB Host 2.0	2* USB Host 2.0

Model	HT0702PE	HT1001PE	HT1501PE
Serial COM port	COM1: RS232	COM1: RS232	COM1: RS232
	COM2: RS485/RS422; COM3: RS485	COM2: RS485/RS422; COM3: RS485	COM2: RS485/RS422; COM3: RS485
IoT	Support 4G or WIFI expansion	Support 4G or WIFI expansion	Support 4G or WIFI expansion
Supply	Rated power	< 10W	< 10W
	Rated voltage	DC24V, working range DC 12V~28V	DC24V, working range DC 12V~28V
	Protection	Lightning surge protection	Lightning surge protection
	Allow power failure	< 5mS	< 5mS
Structure	PCB coating	No (can customize)	No (can customize)
	Dimension	272*215*43mm	272*215*43mm
	Cut-out size	192*138mm	260*202mm
	Mechanical structure	Die-cast aluminum alloy	Die-cast aluminum alloy
	Protection	Front panel: IP68 Rear cover: IP20	Front panel: IP68 Rear cover: IP20
	Weight	≈ 1.2kg	≈ 1.8kg
	Installation	Panel embedded	Panel embedded
Environment	Working temp.	0~50℃	0~50℃
	Storage temp.	-20~60℃	-20~60℃
	Humidity	10~90%RH (non-condensing)	10~90%RH (non-condensing)
	Shock resistance	10~25Hz (X, Y, Z directions 2G/30 mins)	10~25Hz (X, Y, Z directions 2G/30 mins)
	Cooling method	Natural air cooling	Natural air cooling
Certification	Compliant with CE certification standards	Compliant with CE certification standards	Compliant with CE certification standards
Software	Easy Manager PRO V2.02 or above	Easy Manager PRO V2.02 or above	Easy Manager PRO V2.18 or above

IV Variable Frequency Drive (VFD)



IV.1 Single phase 220v input and 3 phase output 220v

Model	Voltage (V)	Power (KW)	Current (A)	G.W. (KG)	Dimension (mm)	Mounting Holes (mm)
EM10-G1-1d5	220	1.5	7	2	100/151/116	89/140/Φ4
EM10-G1-2d2	220	2.2	10			
EM10-G1-004	220	4	16	5	162/250/191	148/238/Φ5.5
EM10-G1-5d5	220	5.5	23			

IV.2 3 Phase 380v input and 3 phase output 380v

Model	Voltage (V)	Power (KW)	Current (A)	G.W. (KG)	Dimension (mm)	Mounting holes (mm)
EM10-G3-1d5/P3-2d2	380	1.5/2.2	3.8/5.1	2	100/151/116	89/140/Φ4
EM10-G3-2d2/P3-004		2.2/4.0	5.1/9			
EM10-G3-004/P3-5d5		4.0/5.5	9/13	3	120/205/166	108/195/Φ4.5
EM10-G3-5d5/P3-7d5		5.5/7.5	13/17			
EM10-G3-7d5/P3-011		7.5/11	17/25	5	162/250/191	148/238/Φ5.5
EM10-G3-011/P3-015		11/15	25/32			
EM10-G3-015/P3-018		15/18.5	32/37	10	223/323/207	207/307/Φ5.5
EM10-G3-018/P3-022		18.5/22	37/45			
EM10-G3-022/P3-030		22/30	45/60			
EM10-G3-030/P3-037		30/37	60/75	23	275/445/232	180/400/Φ7
EM10-G3-037/P3-045	380	37/45	75/91	23	275/445/232	180/400/Φ7
EM10-G3-045/P3-055	380	45/55	91/112	30	300/460/250	256/473/Φ10
EM10-G3-055/P3-075	380	55/75	112/150			
EM10-G3-075/P3-090	380	75/90	150/176	40	335/495/250	286/483/Φ10
EM10-G3-090/P3-110	380	90/110	176/210			
EM10-G3-110/P3-132	380	110/132	210/253	55	410/610/280	260/575/Φ12
EM10-G3-132/P3-160	380	132/160	253/304			
EM10-G3-160/P3-200	380	160/200	304/377	80	460/710/335	320/690/Φ12
EM10-G3-200/P3-220	380	200/220	377/426			

Model	Voltage (V)	Power (KW)	Current (A)	G.W. (KG)	Dimension (mm)	Mounting holes (mm)
EM10-G3-220/P3-250	380	220/250	426/465	110	535/885/370	360/830/Φ12
EM10-G3-250/P3-280	380	250/280	465/520			
EM10-G3-280/P3-315	380	280/315	520/585			
EM10-G3-315	380	315	585	120	535/1130/370	360/830/Φ12
EM10-G3-355	380	355	650			
EM10-G3-400	380	400	725			
EM10-G3-450	380	450	820	170	650/1300/415	360/990/Φ12
EM10-G3-500	380	500	860			
EM10-G3-560	380	560	950			
EM10-G3-630	380	630	1100	230	810/1560/445	600/1250/Φ16
EM10-G3-710	380	710	1200			
EM10-G3-800	380	800	1300			

IV.3 3 phase 220V input and 3 phase output 220v

Model	Voltage (V)	Power (KW)	Current (A)	G.W. (KG)	Dimension (mm)	Mounting holes (mm)
EM10-G2-d75	220	0.75	3.8/5.1	2	100/151/116	89/140/Φ4
EM10-G2-1d5		1.5	5.1/9			
EM10-G2-2d2		2.2	9/13			
EM10-G2-004		3.7	17/25	5	162/250/191	148/238/Φ5.5
EM10-G2-5d5		5.5	25/32			
EM10-G2-7d5		7.5	32/37			
EM10-G2-011		11	45/60	10	223/323/207	207/307/Φ5.5
EM10-G2-015		15	60/75			
EM10-G2-018		18.5	75/91			
EM10-G2-022	220	22	91/112	30	300/460/250	256/473/Φ10
EM10-G2-030		30	112/150			
EM10-G2-037		37	150/176			
EM10-G2-045		45	176/210	40	335/495/250	286/483/Φ10
EM10-G2-055		55	210/253			
EM10-G2-075		75	304/377			
EM10-G2-075		75	304/377	80	460/710/335	320/690/Φ12

IV.4 Braking Resistor

Brake Unit/ Braking modules									
Model	Voltage	Power (Light Load) Kc10%	Power (Heavy Load) Kc25%~40%	Rated current (A)	Max. Current (A)	Min. Resistance (Ω)	Dimension (H*W*D) mm	Installation (H*W)	G.W (KG)
EM-BU1	680VDC	<22kW	<15KW	6	33	33	182*130*109	152*130	3
EM-BU2		30-55kW	18.5-30KW	10	75	20			
EM-BU3		75-90kW	37-55KW	15	100	13.6			
EM-BU2H	670VDC	110-132KW	75-90KW	30	150	7.5	352*186*167	340*140	8
EM-BU3H		160-180kW	90-110kW	70	150	5.6			
EM-BU4H		200-250KW	132-200KW	85	200	4			
EM-BU5H		280-400KW	250-315KW	120	300	2.8			
EM-BU6H		450-500KW	350-400KW	160	450	2			

Braking Resistor							
Porcelain Winding						Aluminum Enclosure	
Model	Voltage (kV)	Power (W)	Resistance (Ω)	Dimension (L*D) (mm)	N.W (KG)	Dimension (L*W*H) (mm)	N.W (KG)
EMBR-100W*RJ	<1.2kV	100	2 ~1000	140*28	0.2	140*40*20	0.2
EMBR-150W*RJ		150		170*28	0.2	185*40*20	0.3
EMBR-200W*RJ		200		215*28	0.2	165*60*30	0.5
EMBR-250W*RJ		250		267*28	0.3	-	-
EMBR-300W*RJ		300		330*40	0.6	215*60*30	0.6

Braking Resistor							
Porcelain Winding						Aluminum Enclosure	
Model	Voltage (kV)	Power (W)	Resistance (Ω)	Dimension (L*D) (mm)	N.W (KG)	Dimension (L*W*H) (mm)	N.W (KG)
EMBR-400W*RJ	<1.2kV	400	2 ~1000	330*50	0.8	265*60*30	0.9
EMBR-500W*RJ		500		330*50	1.1	285*60*30	1.0
EMBR-750W*RJ		750		300*60	1.5	330*60*30	1.5
EMBR-1000W*RJ		1000		300*70	2.0	385*60*30	2.0
EMBR-1500W*RJ		1500		360*70	2.3	400*50*107	3.5
EMBR-2000W*RJ		2000		420*70	2.6	450*50*107	4.0
EMBR-2500W*RJ		2500		420*70	2.6	485*50*107	4.5
EMBR-3000W*RJ		3000		420*80	3.0	550*50*107	5.0
EMBR-3500W*RJ		3500		430*90	4.0	-	-
EMBR-4000W*RJ		4000		550*90	6.0	650*50*107	6.0
EMBR-4500W*RJ		4500		500*100	6.0	-	-
EMBR-5000W*RJ		5000		550*100	6.0	750*50*107	7.0
EMBR-6000W*RJ		6000		550*100	7.0	850*50*107	8.0

IV.5 Motor Soft Starter



Model	Voltage (V)	Power (KW)	Current (A)	G.W. (KG)	Dimension (mm)
EM-GU3-015	380	15	30	6	240*105*168.5
EM-GU3-030	380	30	60		
EM-GU3-045	380	45	90		
EM-GU3-055	380	55	110	8	282.5*135*184.5
EM-GU3-075	380	75	150		
EM-GU3-090	380	90	180		
EM-GU3-110	380	110	230	13	370.5*190*224
EM-GU3-160	380	160	320		
EM-GU3-200	380	200	400		
EM-GU3-280	380	280	560	18	393*225*226
EM-GU3-355	380	355	700		
EM-GU3-400	380	400	800		
				40	586*483*296
				42	637*483*296

V Servo Driver & Motor



Servo Motor						Servo Driver
Model	Series	Torque (N.m)	Speed (rpm)	Power (KW)	Current (A)	Model
EM-60S012N30S22	60	1.27	3000	400W	2.5	EMSD5-AS040
EM-60S012N30S42	60	1.27	3000	400W	2.5	
EM-80S024N30S22	80	2.39	3000	750W	4.8	EMSD5-AS075
EM-80S024N30S42	80	2.39	3000	750W	4.8	
EM-80S032N30S22	80	3.18	3000	1KW	7	EMSD5-AS075
EM-80S032N30S42	80	3.18	3000	1KW	7	
EM-130048N20S22	130	4.8	2000	1KW	4.6	EMSD5-BS130
EM-130048N20S42	130	4.8	2000	1KW	4.6	
EM-130072N20S22	130	7.2	2000	1.5KW	9.3	EMSD5-BS150
EM-130072N20S42	130	7.2	2000	1.5KW	9.3	

Servo Motor						Servo Driver
Model	Series	Torque (N.m)	Speed (rpm)	Power (KW)	Current (A)	Model
EM-130S096N20S22	130	9.6	2000	2KW	14.2	EMSD5-
EM-130S096N20S42	130	9.6	2000	2KW	14.2	BS200

VI Stepper Driver & Motor

VI.1 Stepper Driver

VI.1.1 Digital two-phase open loop driver



Model	HK430	HK542	HK556	HK556S	HK872	HK860
Phase	2	2	2	2	2	2
Dial switch	SW1-SW4 current switch SW5-SW8 Subdivision switch			SW1-SW3 current dial switch SW4 full current/half current lock switch SW5-SW8 subdivision dial switch		
Current	0.10-2.20A	0.71-3.00A	1.00-4.00A	1.00-4.00A	2.00-6.00A	2.00-6.00A
Peak current	0.14-3.00A	1.00-4.20A	1.40-5.60A	1.40-5.60A	2.40-7.20A	2.40-7.20A
Supply voltage	DC12-40V	DC12-75V		DC24-90V AC18-60V	DC24-110V AC18-80V	
Subdivision parameter	200-20000 P/R		200-25600 P/R		400-51200 P/R	
Electric frequency signal	5-24V compatible No series resistor required					
Control method	Pulse + direction/ double pulse	Pulse + direction		Pulse + direction/ double pulse	Pulse + direction/ double pulse	
Maximum pulse frquency	500KHZ Factory default 200KHZ					
Signal interface	PUL+ and PUL- are the positive and negative ends of the pulse signal. DIR+ and DIR- are the positive and negative ends of the direction signal. EAN+ and EAN- are the positive and negative ends of the enable signal.					
Motor wring	A+(Black) A-(Green) B+(Red) B- (Blue)					

Model	HK430	HK542	HK556	HK556S	HK872	HK860
Debug port	type-c			RJ11		
Protection	Overvoltage/undervoltage/overcurrent					
Color	Black					
Dimensions	93*56*21	118*76*33	118*76*33	118*76*33	118*76*33	150*97*53
Installation size	85	110	110	110	110	138
Adaptive motor	28/35/42 base open loop motor	57/60 base open loop motor	60/86 base open loop motor	86 base open loop motor		
Certificate	CE/FCC	CE/FCC	CE/FCC	CE/FCC	CE/FCC	CE/FCC

VI.1.2 Digital two-phase closed-loop driver



Model	HB60	HB86
Phase	2phase	2phase
Dial switch	• SW1-SW4 subdivision dial • SW5 motor direction selection (ON clockwise, OFF counterclockwise) • SW6 driver rigidity selection (ON rigidity weak, OFF rigidity strong) • SW7-SW8 motor base selection	
Current	8A	8A
Peak current	13A	13A DC24-110V
Supply voltage	DC20-80V	AC20-80V
Subdivision parameter	400-51200 P/R	
Electric frequency signal	5-24V compatible No series resistor required	

Model	HB60	HB86
Control method	Pulse+direction/ double pulse	
Maximum pulse frequency	500KHZ Factory default 300KHZ	
Signal interface	PUL+ and PUL- are the positive and negative ends of the pulse signal. DIR+ and DIR- are the positive and negative ends of the direction signal. EAN+ and EAN- are the positive and negative ends of the enable signal. ALM+ and ALM- are the positive and negative ends of the alarm signal. - PUL+ and PUL- are the positive and negative ends of the pulse signal. - DIR+ and DIR- are the positive and negative ends of the direction signal. - EAN+ and EAN- are the positive and negative ends of the enable signal. - ALM+ and ALM- are the positive and negative ends of the alarm signal. - PEND+ and PEND- are the positive and negative ends of the arrival signal.	
Motor wiring	A+(Black) A-(Green) B+(Red) B (- Blue)	
Encoder wiring	EGND (Black) VCC(Red) EA+ (Blue) EA- (Blue-Black) EB+ (Green) EB-(Green-Black)	
Debug port	RJ11	
Protection	Overvoltage/undervoltage/overcurrent/overproof	
Color	Sand black/Sand blue	Sand blue
Dimensions	116*70*27	151*97*52
Installation size	108	139
Adaptive motor	42/57/60 base closed loop motor	86 base closed loop motor
Certificate	CE/FCC	CE/FCC

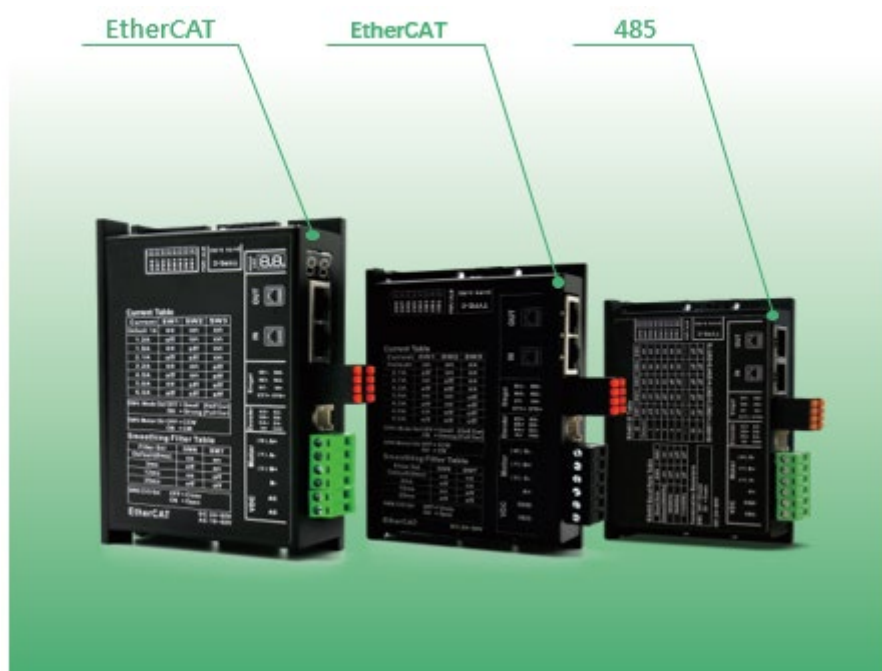
VI.1.3 Two-phase Spontaneous pulse driver



Model	HK430-IO	HK556-IO	HK860-IO	HK556-AI	HK860-AI
Phase	2	2	2	2	2
Dial switch	SW1-SW4 current dial switch SW5-SW8 speed dial switch	SW1-SW3 current dial switch SW4 full current\half current lock SW5-SW8 speed dial			
Current	0.10-2.20A	1.00-4.00A	2.00-6.00A	1.00-4.00A	2.00-6.00A
Peak current	0.14-3.00A	1.40-5.60A	2.40-7.20A	1.40-5.60A	2.40-7.20A
Supply voltage	DC12-40V	DC12-75V	DC24-110V AC18-80V	DC12-75V	DC24-110V AC18-80V
Rotate speed	40-850RPM				
Electric frequency signal	5-24V compatible No series resistor required				
Control method	IO (Digital)			A (Analog)	
Signal interface	• PUL+ and PUL- are the positive and negative ends of the pulse signal. • DIR+ and DIR- are the positive and negative ends of the direction signal. • EAN+ and EAN- are the positive and negative ends of the enable signal.			• 5V connected to the positive end of the sliding resistor. • AI analog input speed control. • GND analog input GND. • DIR direction model-. • COM+ start signal and direction signal+. • START start signal-.	
Motor wiring	A+(Black) A-(Green) B+(Red) B (- blue)				
Debug port	type-c	RJ11			

Model	HK430-IO	HK556-IO	HK860-IO	HK556-AI	HK860-AI
Protection	Overvoltage/ undervoltage/ overcurrent				
Color	Sand Black				
Dimension	93*58*21	118*76*33	150*97*53	118*76*33	150*97*53
Installation size	85	110	138	110	138
Adaptive motor	28/35/42 base open loop motor	57/60base open loop motor	86 base open loop motor	57/60 base open loop motor	86 base open loop motor
Certificate	CE/FCC	CE/FCC	CE/FCC	CE/FCC	CE/FCC

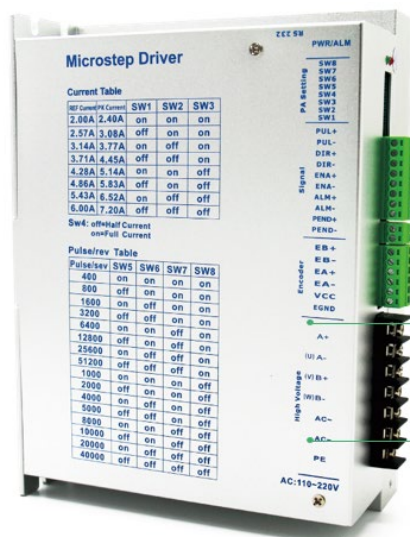
VI.1.4 Bus Driver



Series	EtherCAT Bus Driver		485 Bus Driver
Model	EC57	EC86	RS57
Phase	2	2	2
Dial switch	• SW1-SW3 current dial switch • SW4 driver rigidity selection (ON rigidity strong, OFF rigidity weak) • SW5 motor direction selection (ON forward, OFF reverse) • SW6-SW7 filter time setting • SW8 open-closed loop selection (ON open-loop, OFF closed-loop)		• SW1-SW5 Address dial • SW6-SW7 Baud rate dial • SW8 Terminal resistance selection (OFF: RS485 R OFF; ON: RS485 R ON)

Series		EtherCAT Bus Driver		485 Bus Driver
loop)				
Max current		5.6A	6.5A	5.6A
Voltage		DC24-80V	DC24-80V AC18-60V	DC24-80V
Electric frequency signal			5-24V compatible No series resistor required	
Communication		EtherCAT	EtherCAT	485
Signal interface		IN0-digital input signal 0 input terminal		
		IN1-digital input signal 1 input terminal		
		IN2-digital input signal 2 input terminal		
		IN3-digital input signal 3 input terminal		
		IN+ digital input signal positive terminal		
		OT-digital output signal 0 negative terminal		
		OT0+digital output signal 0 positive terminal		
		OT1+digital output signal 1 positive terminal		
Motor wiring		A+ (black) A- (green) B+ (red) B- (blue)		
Encoder wiring		EGND (black) VCC (red) EA+ (blue) EA- (blue-black) EB+ (green) EB- (green-black)		
Debug port		Type C		
COM port		RJ45*2		
Protection		Overvoltage/undervoltage/overcurrent/out of tolerance		
Color		Sand Black		
Dimension		119*76*26	135*82*32	119*76*26
Installation size		112	127	112
Adaptive	motor	42/57/60 base motor	86 base Motor	42/57/60 base motor
Certificate		CE/FCC		

VI.1.5 High Voltage Driver



110-130V

Suitable for 110-130 base stepper motor.

AC110-220V

Supply voltage range.

Series	Maximum Pulse Frequency		Three-phase High Voltage Driver	
Model	HK2280	HB2280	3HK2280	3HB2280
Phase	2		3	
Dial switch	• SW1-SW3 • current dial switch. • SW4 full current/half current lock switch. • SW5-SW8 subdivision dial switch.	• SW1-SW4 subdivision dial. • SW5 motor direction selection (ON clockwise, OFF counterclockwise). • SW6 driver rigidity selection (ON rigidity weak, OFF rigidity strong). • SW7-SW8 motor base selection.	• SW1-SW3 current dial switch. • SW4 full current/half current lock switch. • SW5-SW8 subdivision dial switch.	• SW1-SW4 subdivision dial. • SW5 motor direction selection (ON clockwise, OFF counterclockwise). • SW6 driver rigidity selection (ON rigidity weak, OFF rigidity strong). • SW7-SW8 motor base selection.
Current	2.00-6.00A	8A	2.00-6.00A	8A
Peak current	2.40-7.20A	13A	2.40-7.20A	13A
Supply voltage	AC110-220V			
Subdivision parameter	200-51200 P/R			
Electric frequency signal	5-24V compatible No series resistor required			
Control method	Pulse + direction/ double pulse			
Maximum pulse frequency	500KHZ Factory default 200KHZ			
Signal interface	PUL+ and PUL- are the positive and negative ends of the pulse signal. DIR+ and DIR- are the positive and negative ends of the direction signal. EAN+ and EAN- are the positive and negative ends of the enable signal. ALM+ and ALM- are the positive and negative ends of the alarm signal.			

Series	Maximum Pulse Frequency		Three-phase High Voltage Driver	
Model	HK2280	HB2280	3HK2280	3HB2280

PEND+ and PEND- are the positive and negative ends of the arrival signal.

Motor wiring	A+(Black) A-(Green) B+(Red) B- (Blue)		U (connect to the U phase of the motor) V (connect to the V phase of the motor) W (connect to the W phase of the motor)	
Encoder wiring	No connection	EA+(Yellow) EB+(Black) VCC(Red) EB-(Green) EA-(Blue) EGND(White)	No connection	EA+(Yellow) EB+(Black) VCC(Red) EB-(Green) EA-(Blue) EGND(White)
Debug port		RJ11		
Protection	Overvoltage/undervoltage/overcurrent	Overvoltage/undervoltage/overcurrent/out of tolerance	Overvoltage/undervoltage/overcurrent	Overvoltage/undervoltage/overcurrent/out of tolerance
Color		Silver		
Dimension	203*147*78	203*147*78	203*147*78	203*147*78
Installation size	193	193	193	193
Adaptive motor	110/130 Base two-phase open-loop motor	110/130 Base two-phase closed-loop motor	110/130 Base three-phase open loop motor	110/130 Base three-phase closed loop motor
Certificate	CE/FCC	CE/FCC	CE/FCC	CE/FCC

VI.2 Stepper Motor



VI.2.1 Two-phase open-loop motor

Type	Model	Phase	Step angle	Motor foundation	Body length	Torque	Rated current	Axle length	Axle diameter	Rotor inertia
42 Two phase motor	42HK34	2	1.8	42MM	34MM	0.30Nm	1.3A	24MM	5MM	35g.cm ²
	42HK40	2	1.8	42MM	40MM	0.44Nm	1.7A	24MM	5MM	54g.cm ²
	42HK47	2	1.8	42MM	47MM	0.50Nm	1.7A	24MM	5MM	68g.cm ²
	42HK60	2	1.8	42MM	60MM	0.71Nm	1.7A	24MM	5MM	80g.cm ²
57 two phase open loop motor	57HK41	2	1.8	57MM	41MM	0.55Nm	3A	21MM	8MM	120g.cm ²
	57HK56	2	1.8	57MM	56MM	1.20Nm	3A	21MM	8MM	300g.cm ²
	57HK76	2	1.8	57MM	76MM	1.80Nm	4A	21MM	8MM	480g.cm ²
	57HK82	2	1.8	57MM	82MM	2.20Nm	4A	21MM	8MM	530g.cm ²
	57HK100	2	1.8	57MM	100MM	2.50Nm	4A	21MM	8MM	700g.cm ²
	57HK112	2	1.8	57MM	112MM	3.00Nm	4A	21MM	8MM	800g.cm ²
	60HK88	2	1.8	60MM	88MM	2.80Nm	4A	21MM	8MM	840g.cm ²
86 two phase open loop motor	60HK100	2	1.8	60MM	100MM	3.20Nm	4A	21MM	8MM	1000g.cm ²
	86HK65	2	1.8	86MM	65MM	3.50Nm	4A	32MM	14MM	600g.cm ²
	86HK80	2	1.8	86MM	80MM	4.50Nm	6A	32MM	14MM	1400g.cm ²
	86HK98	2	1.8	86MM	98MM	6.80Nm	6A	32MM	14MM	2100g.cm ²
	86HK118	2	1.8	86MM	118MM	8.50Nm	6A	32MM	14MM	2700g.cm ²
	86HK128	2	1.8	86MM	128MM	9.00Nm	6A	32MM	14MM	3200g.cm ²

Type	Model	Phase	Step angle	Motor foundation	Body length	Torque	Rated current	Axle length	Axle diameter	Rotor inertia
	86HK156	2	1.8	86MM	156MM	12.0Nm	6A	32MM	14MM	4000g.cm ²
	110HK115	2	1.8	110MM	115MM	12.0Nm	6A	40MM	16MM	7200g.cm ²
110 two phase motor	110HK150	2	1.8	110MM	150MM	18.0Nm	6.5A	40MM	16MM	10900g.cm ²
	110HK165	2	1.8	110MM	165MM	22.0Nm	6.5A	40MM	16MM	13000g.cm ²
	110HK201	2	1.8	110MM	201MM	30.0Nm	8A	40MM	16MM	16200g.cm ²

VI.2.2 Three-phase open-loop motor

Type	Model	Phase	Step angle	Motor foundation	Body length	Torque	Rated current	Axle length	Axle diameter	Rotor inertia
110 three phase open loop motor	3110HK194	3	1.2	110MM	194MM	16.0Nm	5A	42MM	19MM	15300g·cm ²
	3110HK233	3	1.2	110MM	233MM	20.0Nm	5A	42MM	19MM	18600g·cm ²
	3110HK253	3	1.2	110MM	253MM	22.0Nm	5A	42MM	19MM	21000g·cm ²
	3110HK284	3	1.2	110MM	284MM	25.0Nm	5A	42MM	19MM	24300g·cm ²
130 three phase motor	3130HK187	3	1.2	130MM	187MM	20.0Nm	5A	48MM	19MM	24000g·cm ²
	3130HK230	3	1.2	130MM	230MM	30.0Nm	5A	48MM	19MM	28900g·cm ²
	3130HK250	3	1.2	130MM	250MM	36.0Nm	5A	48MM	19MM	34000g·cm ²
	3130HK290	3	1.2	130MM	290MM	50.0Nm	5A	48MM	19MM	43000g·cm ²

VI.2.3 Two-phase closed-loop motor

Type	Model	Phase	Step angle	Motor foundation	Body length	Torque	Rated current	Axle length	Axle diameter	Rotor inertia
42 two Phase closed loop motor	42HB34	2	1.8	42MM	54MM	0.30Nm	1.3A	24MM	5MM	35g·cm ²
	42HB40	2	1.8	42MM	60MM	0.44Nm	1.7A	24MM	5MM	54g·cm ²
	42HB47	2	1.8	42MM	67MM	0.50Nm	1.7A	24MM	5MM	68g·cm ²
	42HB60	2	1.8	42MM	80MM	0.71Nm	1.7A	24MM	5MM	80g·cm ²
57 two phase motor	57HB41	2	1.8	57MM	61MM	0.55Nm	3A	21MM	8MM	120g·cm ²
	57HB56	2	1.8	57MM	76MM	1.20Nm	3A	21MM	8MM	300g·cm ²
	57HB76	2	1.8	57MM	96MM	1.80Nm	4A	21MM	8MM	400g·cm ²
	57HB82	2	1.8	57MM	102MM	2.20Nm	4A	21MM	8MM	530g·cm ²
	57HB100	2	1.8	57MM	120MM	2.50Nm	4A	21MM	8MM	700g·cm ²
	57HB112	2	1.8	57MM	132MM	3.00Nm	4A	21MM	8MM	800g·cm ²
	60HB88	2	1.8	60MM	102MM	2.60Nm	4A	21MM	8MM	840g·cm ²
	60HB100	2	1.8	60MM	120MM	3.00Nm	4A	21MM	8MM	1000g·cm ²
86 two phase motor	86HB65	2	1.8	86MM	86MM	3.50Nm	4A	40MM	14MM	600g·cm ²
	86HB80	2	1.8	86MM	101MM	4.50Nm	6A	40MM	14MM	1400g·cm ²
	86HB98	2	1.8	86MM	119MM	6.80Nm	6A	40MM	14MM	2100g·cm ²
	86HB118	2	1.8	86MM	139MM	8.50Nm	6A	40MM	14MM	2700g·cm ²
	86HB128	2	1.8	86MM	149MM	9.00Nm	6A	40MM	14MM	3200g·cm ²
	86HB156	2	1.8	86MM	177MM	12.0Nm	6A	40MM	14MM	4000g·cm ²

VI.2.4 Three-phase closed-loop motor

Type	Model	Phase	Step angle	Motor foundation	Body Length	Torque	Rated current	Axle length	Axle diameter	Rotor inertia
110 three- phase closed loop motor	3110HB134	3	1.2	110MM	134MM	8.00Nm	3A	42MM	19MM	6000g·cm ²
	3110HB151	3	1.2	110MM	151MM	13.0Nm	3A	42MM	19MM	12100g·cm ²
	3110HB185	3	1.2	110MM	185MM	16.0Nm	5A	42MM	19MM	13560g·cm ²
	3110HB219	3	1.2	110MM	219MM	20.0Nm	5A	42MM	19MM	17400g·cm ²
	3110HB253	3	1.2	110MM	253MM	22.0Nm	5A	42MM	19MM	18600g·cm ²
	3110HB285	3	1.2	110MM	285MM	25.0Nm	5A	42MM	19MM	20000g·cm ²

VII Power Supply



Model	S-60-24	S-150-24
Specification		
DC output voltage	24V	24V
Output voltage range	±1%	±1%
Rated output current	4A	6.5A
Output current range	0~4A	0~6.5A
Wave and noise	60mVp-p	120mVp-p
Inlet stability	±0.5%	±0.2%
Load stability	±0.5%	±0.2%
DC output power	60W	150W
Efficiency	84%	85%
Adjustable range for DC voltage	±10%	21~28V
AC input voltage range	85~132VAC/170~264VAC 47~63Hz 240~370VDC	85~132VAC/170~264VAC 47~63Hz
Output current	1.3A/115V 0.65A/230V	3.2A/115V 1.6A/230V
AC rush current	15A/115V 36A/230V	30A/115V 60A*230V
Leakage current	<0.5mA/240VAC	<3.5mA/240VAC
Overload protection	105%-150% hiccup mode, auto-recovery	105%-150% hiccup mode, auto-recovery
Over-Voltage protection	115%-135% rated output voltage	115%-135% rated output voltage
Temperature coefficient	±0.03%/°C(0~50°C)	±0.03%/°C(0~50°C)
Setup, rise, hold up time	200ms, 10ms, 30ms	100ms, 50ms, 20ms

Specification	Model	S-60-24	S-150-24
Vibration		10~500Hz, 2G 10min,/1 cycle Period for 60min, Each axes	10~500Hz, 2G 10min,/1 cycle Period for 60min, Each axes
Withstand voltage		I/P-O/P:3KV I/P-FG:1.5KV O/P-FG:0.5KV 1 minute	I/P-O/P:3KV I/P-FG:1.5KV O/P-FG:0.5KV 1 minute
Isolation resistance		I/P-O/P I/P/FG O/P-FG:500VDC/100MΩ	I/P-O/P I/P/FG O/P-FG:500VDC/100MΩ
Working temperature and humidity		-10°C~+60°C,20%~90%RH	-10°C~+60°C,20%~90%RH
Overall dimension		159 * 98 * 38mm	199 * 98 * 42mm
Safety Standards		Meet UL 1012 requirement	UL1950 TUV EN60950 approved
EMC Standards		Design refer to GB9254, EN55022 ClassA	CISPR22(EN55022),IEC1000-4,2,3,4 IEC1000-3- 2Verification
Weight		0.5Kg	0.7Kg