

SLANVERT



PRODUCT CATALOG



INNOVATIVE AUTOTMATION

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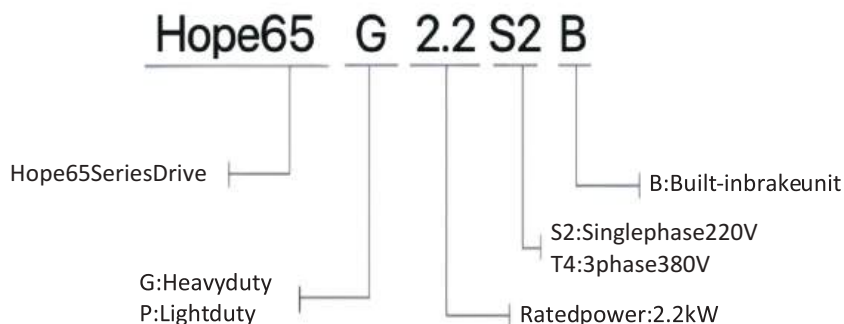
🌐 www.innovativeautomation.in

:: BRANCH ::

SURAT | VAPI | MUMBAI | PUNE

Hope 65 Series Smart VFD

AC220V/380V.75~22kW



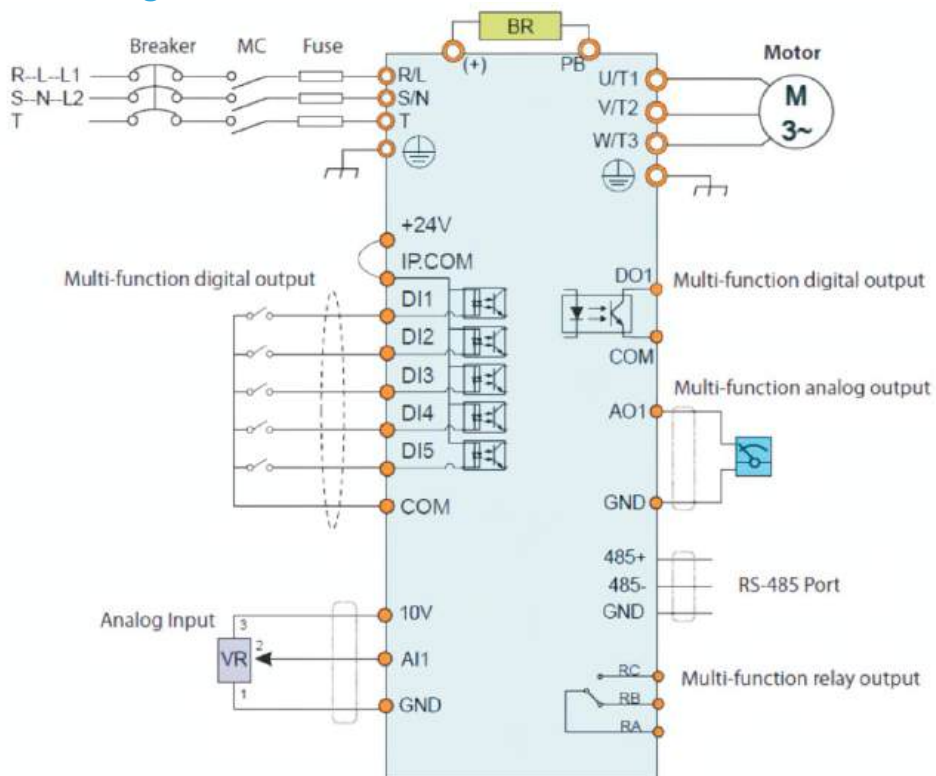
Product features

- SupportV/FandVectorcontrol
- IntegratedG/Pmode
- Built-inDBU
- Removablekeypad
- StandardRS485interface
- Output0-500Hz
- Automatictorqueboost
- Linear/S-curveaccelerationanddeceleration

Product specification

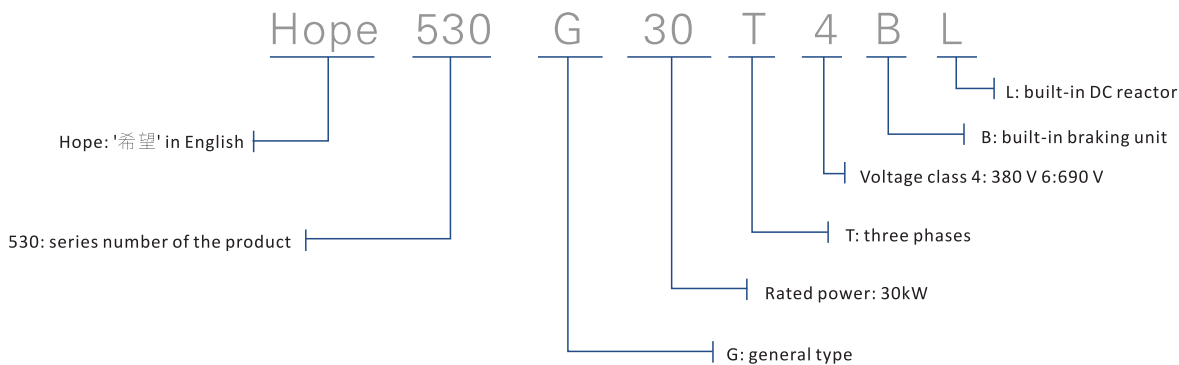
Functional Descriptions	Specifications
Overload capacity	150% of rated current: 60 seconds 170% of rated current: 12 seconds 190% of rated current: 1.5 seconds

Standard wiring



► Hope 530 High Performance LV Drive

■ Naming Rules for Products



■ Features

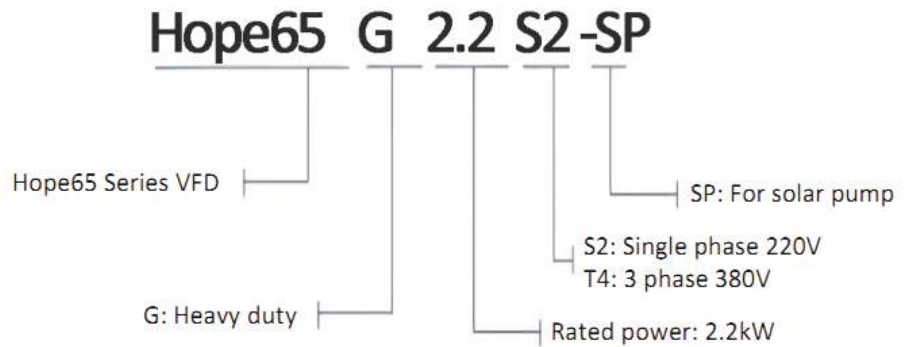
- Control mode: VF, VF+PG, SVC, closed-loop Vector Control
- Strong overload capacity: 150% 60s, 180% 15s, 200% 2s
- 2 groups PID parameters
- Optional IO/ Encoder/ Communication card
- Integrated logic control: Comparator, logic, timer, arithmetic unit

■ Specifications

Power Range	380V: 0.75~375kW 660V: 18.5~375kW
Power input	3ph, 380V(-15%)~440V(+10%), 520V(-15%)~690V(+10%), 50/60Hz
Power output	Voltage: 0~Vin Frequency: 0~400Hz
Overload Capacity	150% of rated current: 60s 180% of rated current: 15s 200% of rated current: 2s
I/O resource	5DI, 2DO, 2RO, 2AI, 2AO, 1PFI, 1PFO
Control Mode	VF, SVC, FVC
DBU/	DBU: ≤22kW built-in, 30-160kW optional internal
DC reactor	90-375kW built-in DC Reactor, others optional
Features	Integrated internal logic control function, Built-in Modbus, optional IO/ Encoder/ Communication card (Profibus, Profinet, EtherCAT) / LCD display

► Hope 65-SP Solar Pumping VFD

AC 220V/380V 0.75~55kW



■ Product features

- Advanced MPPT Algorithm
- Solar PV and AC power input
- V/F and Vector control
- Removable keypad
- Water level control
- Standard RS485 interface
- Output 0-500Hz
- Automatic torque boost

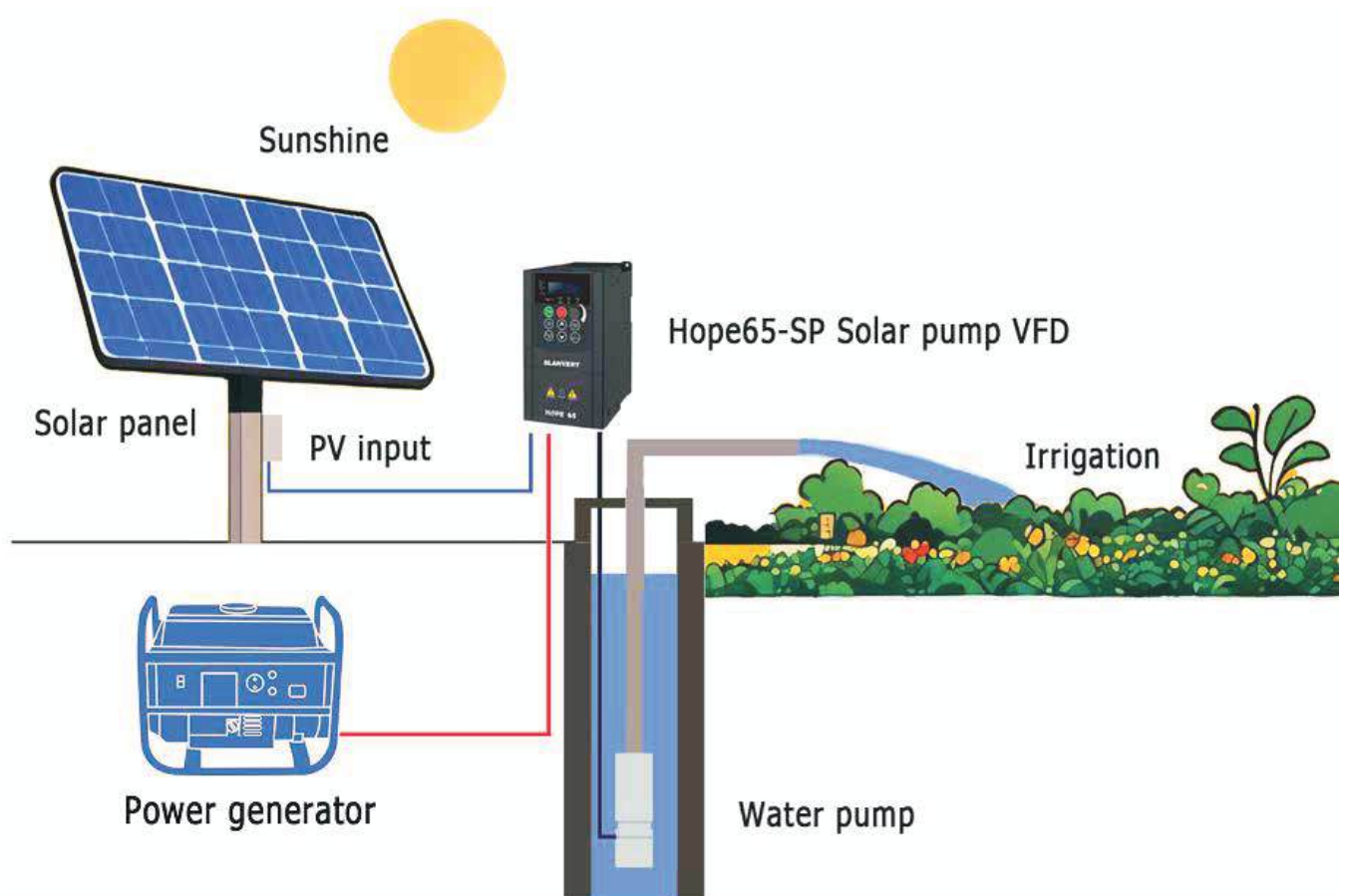
■ Rated parameters

Voltage	Model	Capacity kVA	Input current/A	Rated output current/A	Motor kW
220V	Hope65G0.75S2-SP	1.5	8.2	4	0.75
	Hope65G1.5S2-SP	3	14	7	1.5
	Hope65G2.2S2-SP	4	23	9.6	2.2
	Hope65G4S2-SP	5.9	32	17	4
	Hope65G5.5S2-SP	11	45	25	5.5
380V	Hope65G0.75T4-SP	1.5	3.4	2.1	0.75
	Hope65G1.5T4-SP	3	5	3.8	1.5
	Hope65G2.2T4-SP	4	5.8	5.1	2.2
	Hope65G4T4-SP	6	10.5	9	4
	Hope65G5.5T4-SP	11	13.9	13	5.5
	Hope65G7.5T4-SP	15	18.9	17	7.5
	Hope65G11T4-SP	30	27.8	25	11
	Hope65G15T4-SP	37	37.9	32	15
	Hope65G18.5T4-SP	44	46.7	37	18.5
	Hope65G22T4-SP	60	55.6	45	22

■ Specification

	Functional Descriptions	Specifications
INPUT	PV voltage/DC	Recommend Voc range: 220V: 360~430Vdc. 380V: 550~750Vdc Recommend Vmp range: 220V: 250~350Vdc. 380V: 450~600Vdc Max PV input: 450Vdc(220v class), 800Vdc(380v class)
	Input voltage/AC	AC 1PH, 220V(-15%) ~ 240V(+10%) AC 3PH, 380V(-15%) ~ 440V(+10%)
	Allowable range	Voltage fluctuating range: -15%~10%; voltage unbalance <3%; frequency: 47Hz~63Hz
OUTPUT	Output voltage	220V class: 1PH or 3PH 220V 380V class: 3phase 380V 0V~input voltage, tolerance<5%
BASIC PARAMETERS	Output frequency	0~500Hz
	Overload capacity	150% of rated current: 60 s 170% of rated current: 12 s 190% of rated current: 1.5 s
	IO Resource	5DI, 1DO, 1RO, 1AI, 1AO, RS485

■ Solar water pumping system



N3 Series

High performance pulse servo system

- Power range : 0.2~10KW
- Pulse Command : Pulse + Direction (Positive and Negative Logic), AB Quadrature 4x, CW+CCW
- Supports frequency division output function to form a semi-closed-loop system
- High performance: carrier frequency: 8kHz, current loop frequency: 16kHz, Velocity Loop Frequency: 16kHz, Position Loop Frequency: 4kHz
- High usability: support rigid table adjustment parameters, one-click self-tuning, single parameter adjustment parameters
- High speed: collector input is up to 200kHz, differential input is up to 4MHz. Smaller pulse subdivision, higher position control accuracy

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Powerful Debugging Tools

- Parameter configuration, self-tuning, curve analysis, etc.

High Speed

- Supports up to 4M pulse differential input
- Supports up to 200k pulse collector input
- Supports up to 4M pulse division output
- Smaller pulse subdivision and higher position control accuracy

IO Functions

- AI
- DI
- DO
- Low/high speed input

Multiple Inputs Voltage

- Single-phase AC220V
- Three-phase AC380V

Compact Volumetric Design

- Reduces Volume by 20%
- Reliable EMC design

High Usability

- Support rigid table adjustment parameters
- Support one-click self-tuning
- Support for single-parameter tuning parameters
- Greatly shortens servo tuning time, enhancing ease of use.

Enhanced Vibration Suppression

- Built-in four resonance suppression filters
- Second-order torque low-pass filter
- Input Integer Filter
- Positional Trap Filter
- Solving vibration problems at low, medium and high frequencies

Quick & Easy Panel

- Integrated rigidity table, debugging is more simple and convenient
- Integrated point-and-click, self-learning and more information diagnosis

Rich Encoder Types

- Tamagawa Protocol Encoders

High-performance Servo Motor

- High torque range
- High dynamic response

High-performance Drive

- Carrier frequency: 8kHz
- Current loop frequency: 16kHz
- Velocity loop frequency: 16kHz
- Position loop frequency: 4kHz
- Adopting FPGA current loop architecture.
- Current loop response bandwidth up to 3KHz.
- Smaller control delay and faster following



Industries

Automobile

Mechanics and industrial robots

Lithium battery

Consumer electronics

Printing

New energy

Semiconductor and electronic technology

Entertainment

Food packaging

Functional Characteristics



- High performance rare earth permanent magnet rotor, high-medium and low inertia optional, good dynamic response
- Three Phase Back EMF Sinusoidal Design, extremely low groove torque, good low-speed smoothing characteristics
- Output shaft oil seal protection, and standard brake optional
- Protection grade or IP65 or IP67, B or F class insulation
- Meet CE standard

Encoder feedback methods are optional:



- Incremental encoder
- Multiturn absolute encoder



KMT Series

Three-phase AC permanent magnet synchronous servo motor

KMT three-phase AC permanent magnet synchronous servo motor is designed with 4/5 pole pairs and low slot torque. It is combined with N2&N3 servo driver to form a servo system with powerful functions and excellent performance. The motor supports 3 times overload, and different types of encoders can be selected according to actual site needs, which can fully meet your high-level requirements for dynamic response performance, speed regulation range, position feedback accuracy, and output torque accuracy!

KMT M 130 H - 85B 15 EA - B O K . -

KMT Series

- None: Standard type
- L: Low inertia type
- M: Medium inertia type
- H: High inertia type

Flange

- 4 ϕ flange
- 6 ϕ flange
- 8 ϕ flange
- 10 ϕ flange
- 13 ϕ flange
- 18 ϕ flange
- 20 ϕ flange
- 23 ϕ flange

Voltage Level

- None AC220 V
- H AC380V

Rated Power (W)

- B: x10
- C: x100
- D: x1000

Example : 40B 400W

Note:

- The naming rules are only used for model analysis and cannot be used for ordering. Please consult Company before ordering;
- Whether there is an oil seal or a brake will cause different motor characteristics, please pay attention;
- Motor data may change, please confirm with Company before using it for design purposes.

Type (Only for E8 specification encoders with 80mm flange and below)

- None Split
- X Overall

- None Standard
- G Plastic case aviation insert, only for 40/60/80 flange
- H Metal jet, 180 flanges only

- None Optical axis
- K With key, with threaded hole

- None Without oil seal
- O With oil seal

- None Without brake
- B With brake

Encoder

- E8: 17-bit multi-turn absolute encoder
- EA: 23-bit multiturn absolute encoder

Rated Speed

- 15 00 r p m ; 0 20 0 0 r p m
- 25 : 2500 r p m ; 30 : 3000 r p m

KMT Ordering Informations



Smart Drives



Typical application

N3 Series High performance EtherCATE Servo

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- Power range 0.2~15 kW
- EtherCAT high-speed real-time EtherNET
- Integrated SS and STO security functions
- High dynamic response, current loop period 1.6 μ s, speed loop period 62.5 μ s, position loop period 125 μ s
- High accuracy, supports up to 25bit encoder
- It is easy to use and has functions such as one-click self-tuning, electronic nameplate, and vibration suppression.



Powerful debugging tools

- Parameter configuration, self-learning, curve analysis, etc.



EtherCAT high-speed bus

- Minimum communication cycle 125 μ s
- Jitter less than 1 μ s

Flexible I/O function

- High-speed DI
- Normal DI
- DO
- AI
- AO

Various input voltage specifications

- 1/3 phase AC220V
- 3-phase AC380V
- DC power supply

Compact volume design

- Compact size design, 20% smaller than the previous generation product
- Reliable EMC design

Quick and convenient terminal wiring

- Convenient wiring, saving on-site installation and maintenance time

High-level safety protection design

- STO
- SS

Quick and convenient panel operation

- Integrated rigidly table makes debugging simpler and more convenient
- Integrated log, self-learning and other functions
- Information diagnosis

Rich encoder types

- Ten servo encoder, EtherCAT, Panasonic, Spin change, ABZ

High performance servo motor

- Large torque range
- Highly dynamic and responsive Permanent magnet synchronous servo motor

Excellent control effect

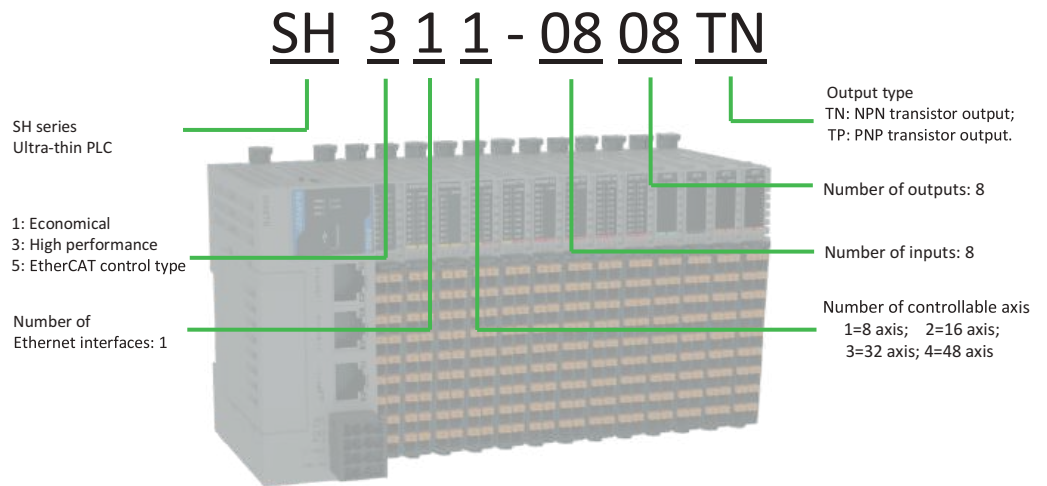
- Position loop period 125 μ s
- Speed loop frequency response 2.5kHz

Industries



- Automobile
- Mechanics and industrial robots
- Lithium battery
- Consumer electronics
- Printing
- New energy
- Semiconductor and electronic technology
- Entertainment
- Food packaging

SH Series PLC



Features

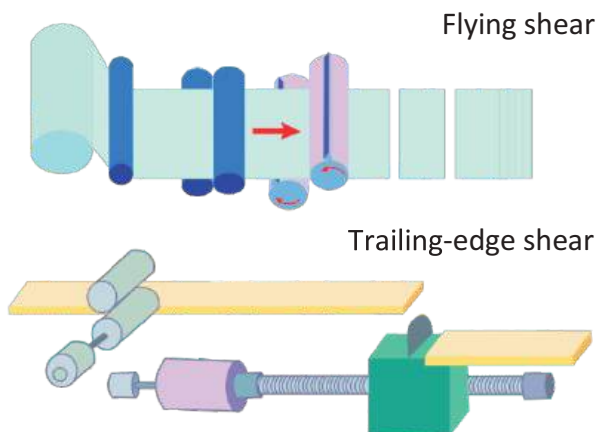
- BUS + PULSE, motion control + process control
Flying shear and following cut function
- Expansion module, flexible optional expansion
(expansion module for SH300/500)
- Easy to use, modular standard instructions, easy programming
- SH300/SH500 integrated E-CAM, linear and circular interpolation
- New generation upgraded processor and ultra-thin structure design
- Light-weight structure, greatly optimized assembly efficiency

SH100 series*

Model	SH100-0808TN	SH100-0808TP
Features	Ultra-thin programmable controller, 8-point input, 8-point NPN output	Ultra-thin programmable controller, 8 input points, 8 PNP output points
Supply voltage	DC24V	
Program storage capacity	16K steps	
Basic instruction execution time	0.2 μs	
Power-off retention	FLASH permanent storage, maximum 2K Bytes	
Programming language	LD, IL, SFC	
Digital input type	NPN and PNP	
Rated Voltage	DC24V, 4mA	
Logic 1 (voltage range)	>15V DC	
Logic 0 (voltage range)	<5V DC	
Filter	X0~X7 have digital filtering function, filtering time 0~60ms Other terminals adopt hardware filter, about 10ms	
High-speed counter	Single-phase 50kHz [2 pcs: X0/X1], 6x10 kHz [6 pcs: X2-X7] Dual-phase 25 kHz [1 pc], 5 kHz [3 pcs]	
Highest pulse output (transistor)	3 channels 100kHz pulse output [Y0-Y2]	
Interface	2 serial communication ports: Port 0: RS232; Port 1: RS485; 1 USB interface	
Baud rate	1.2kbps~115.2kbps	
Communication protocol	Modbus/Free port/N:N	
USB communication	USB2.0, Type C. Supports program upload and download, monitoring, solid-state software upgrade.	

*: SH100 not support expansion module, SH300/SH500 support left and right expansion module

SH300 series



Model	SH301-0808TN	SH301-0808TP	SH311-0808TN	SH311-0808TP
Features	8 points DC24V input 8 points NPN output 1 serial port 1 USB 8*200kHz input/output	8 points DC24V input 8 points PNP output 1 serial port 1 USB 8*200kHz input/output	8 points DC24V input 8 points NPN output 1 serial port 1 USB 1 CANopen 1 Ethernet 8*200kHz input/output	8 points DC24V input 8 points PNP output 1 serial port 1 USB 1 CANopen 1 Ethernet 8*200kHz input/output

SH500 series



Model	SH511-0808TN	SH511-0808TP	SH522-0808TN	SH522-0808TP	SH523-0808TN	SH523-0808TP
Feature	8-point DC24V input, 8-point NPN transistor output, 1 serial port, 1 USB, 1 Ethernet, 1 EtherCAT bus, maximum 8 axis	8-point DC24V input, 8-point PNP transistor output, 1 serial port, 1 USB, 1 Ethernet, 1 EtherCAT bus, maximum 8 axis	8-point DC24V input, 8-point NPN transistor output, 1 serial port, 1 USB, 1 CANopen, 2 Ethernet, 1 EtherCAT bus, maximum 16 axis	8-point DC24V input, 8-point PNP transistor output, 1 serial port, 1 USB, 1 CANopen , 2 Ethernet, 1 EtherCAT bus, maximum 16 axis	8-point DC24V input, 8-point NPN transistor output, 1 serial port, 1 USB, 1 CANopen , 2 Ethernet, 1 EtherCAT bus, maximum 32 axis	8-point DC24V input, 8-point PNP transistor output, 1 serial port, 1 USB, 1 CANopen , 2 Ethernet, 1 EtherCAT bus, maximum 32 axis

ST Series HMI



ST 070 E

□ : Space, standard
E: With Ethernet
C: Capacitive screen

Size: 043: 4.3"
070: 7"
100: 10.1"
156: 15.6"

ST: SLANVERT Touch screen

Resistive HMI Specification

Model	ST043	ST070	ST070E	ST100E	ST156E
Screen	4.3" LCD TFT	7" LCD TFT	7" LCD TFT	10.1" LCD TFT	15.6" LCD TFT
Resolution	480*272	800*480	1024*600	1024*600	1920*1080
Colors	16-bit	16-bit	24-bit	24-bit	65K
Brightness	360 cd/m ²	250 cd/m ²	350 cd/m ²	400 cd/m ²	250 cd/m ²
Backlight	LED				
Touch panel	4-wire Resistive industrial touch screen				
CPU	1GHz, Dual-core Cortex-A7			1G ARM Cortex-A8	
Storage	128M + 64M	128M + 128M	256M + 4G		256M + 512M
RTC	Built-in				
Ethernet Port	/		1*RJ45, 10/100Mbps		2* 10M/100M
USB Port	1* Type-C OTG	1* Type-C OTG, 1*USB-A	1* Type-C OTG, 1*USB-A		1* USB Slave 2.0 1* USB Host 2.0
Download	USB Slave/ U disk (by converter)	USB Slave/ U disk	USB Slave/ U disk / Ethernet		
Serial Port	COM1:RS232/RS485/RS422 COM3: RS232	COM1:RS232/RS485/RS422 COM2: RS485 COM3: RS232	COM1: RS232/RS485/RS422 COM2: RS485 COM3: RS232		COM1:RS232/RS485/RS422 COM2: RS485/RS422 COM3:RS232/RS485/RS422
Rated Power	< 5W	< 10W	< 10W		<18W
Rated Voltage	DC24V, Range DC 9V-28V				DC24V, Range DC 18V-28V
Power Protection	With lightning surge protection				
Power Failure	< 5ms				
Operation Temp.	0 ~ 50°C				
Storage Temp.	-20 ~ 60°C				
Humidity	10 ~ 90% RH, No condensation				
Vibration	10 ~ 25Hz (X, Y, Z direction, 2g/30min)				
Ingress Protection	Front: IP65, Rear: IP20				
Certification	CE, RoHS				
Cutout Size	132*80 mm	190*136 mm	190*136 mm	260*202 mm	380*245 mm
Dimension	138*86*32 mm	204*145*34 mm	204*145*34 mm	273*213*36 mm	394*256*36 mm
Weight	About 300g	About 476g	About 476g	About 920g	About 2250g



Capacitive HMI Specification

Model	ST070C	ST100C
Screen	7" LCD TFT	10.1" LCD TFT
Resolution	1024*600	1024*768
Colors	24-bit	16-bit
Brightness	350 cd/m ²	350 cd/m ²
Backlight	LED	
Touch panel	Glass + Glass Multi-touch capacitive touch screen	
CPU	1.2GHz, 4-core Cortex-A7	
Storage	4G + 256M	
RTC	Built-in	
Ethernet Port	1*RJ45, 10/100Mbps	
USB Port	1* Type-C USB Slave 1* USB-A Host	1* MicroUSB Slave 1* USB-A Host
Download	USB Slave/ U disk / Ethernet	
Serial Port	COM1: RS232/RS485/RS422 COM2/COM4: RS485 COM3: RS232	
Rated Power	< 6W	< 8W
Rated Voltage	DC24V, Range DC 9V-28V	
Power Protection	With lightning surge protection	
Power Failure	< 5ms	
Operation Temp.	-10 ~ 60°C	
Storage Temp.	-20 ~ 70°C	
Humidity	10 ~ 90% RH, No condensation	
Vibration	10 ~ 25Hz (X, Y, Z direction, 2g/30min)	
Ingress Protection	Front: IP65, Rear: IP20	
Certification	CE, RoHS	
Cutout Size	178*125 mm	230*180 mm
Dimension	181.5*130.9*32.6 mm	247*197*31.5 mm
Weight	About 600g	About 1100 g

IoT Module (Available for ST070E and ST100E)

Features	ST-WIFI	ST-4G	ST-4G-WIFI
Antenna	WIFI-A	4G-A	WIFI-A and 4G-A
Network Access	Ethernet, Wifi	Ethernet, 4G	Ethernet, 4G, WIFI
Network Band	WIFI: 802.11b/g/n compatible WLAN 802.11e QoS Enhancement WMM	4G: LTE FDD: B1/B3/B5/B8, LTE TDD: B34/B38/B39/B40/B41	4G: LTE FDD: B1/B3/B5/B8, LTE TDD: B34/B38/B39/B40/B41 WIFI: 802.11b/g/n compatible WLAN 802.11e QoS Enhancement WMM
Operation Temp.	-10 ~ 60°C		
Storage Temp.	-20 ~ 70°C		
Dimension	37*62*15.3 mm		
Weight	About 30g		
VPN Transparent Transmission	Available		
Data Monitoring	300 points		
Alarm Notification	100 points		
Remote Control	Support remote update, PLC program upload and download		

