

SW300

High Performance Inverter



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|--|---|---|--|
| <p>①</p>  <p>Compact Design
Book style to save space</p> | <p>②</p>  <p>Installation Method
Bottom in and bottom out
support wall-mounted
and rail-mounted install</p> | <p>③</p>  <p>Wide Voltage
AC200~240V
AC380~480V
(-20%~+10%)</p> | <p>④</p>  <p>High Performance
Vector+VF+MPPT
Synchronous and
Asynchronous Motors</p> |
| <p>⑤</p>  <p>Good EMC Performance
Strong anti-interference
low noise</p> | <p>⑥</p>  <p>Seperately Cooling duct
Strong environmental
adaptability</p> | <p>⑦</p>  <p>Encoder Speed Regulation
Accurate speed control,
smooth rotation</p> | <p>⑧</p>  <p>MPPT Function for Solar Pumps
DC voltage:
150-400V 250V-800V</p> |

SW300 Series Introduction

I , Product Feature

SW300 is high performance Vector Inverter, support IM&PM motor.
Power Range:

G1: 0.75-55KW (1 Phase 220V input, 3 Phase 220V output)

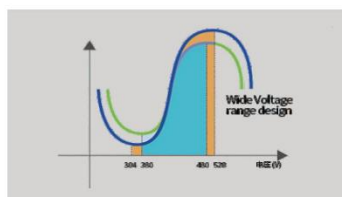
G2: 0.75-55KW (3 Phase 220V input, 3 Phase 220V output)

G3: 0.75-500KW (3 Phase 380V input, 3 Phase 380V output)

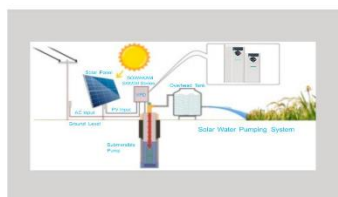
G4: 0.75-55KW (1 Phase 220V input, 3 Phase 380V output)



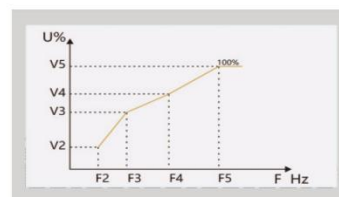
Support both Synchronous Motors and Asynchronous Motors



Wide voltage range design
(-20%~+10%)



MPPT Function for Solar Pumps



Support both vector control and V/F control model



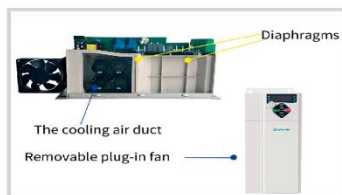
Excellent performance in over-voltage & over-current protection



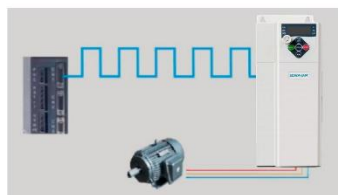
EMC standard complies with CE



Side-by-side installation



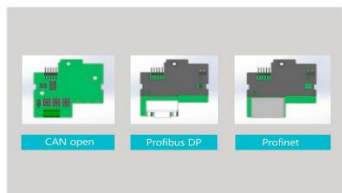
Independent air duct design



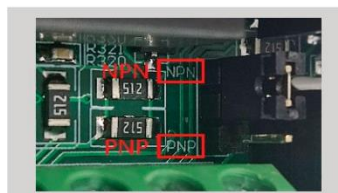
Support high speed pulse input/output



Dual CPU



Expansion Card



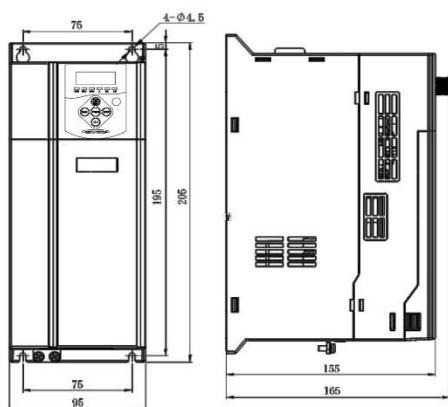
PNP & NPN



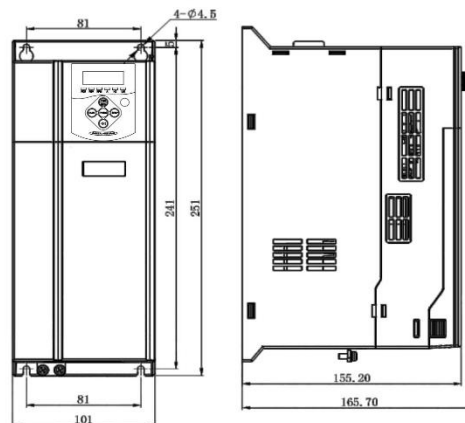
UV Coating higher protection

II, Installation Dimensions(mm)

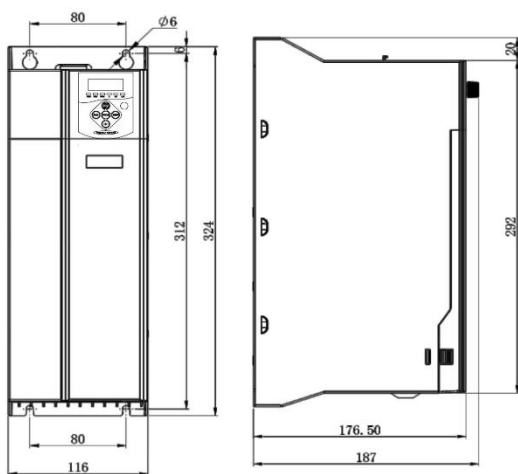
1. SW300-1 shape and installation size



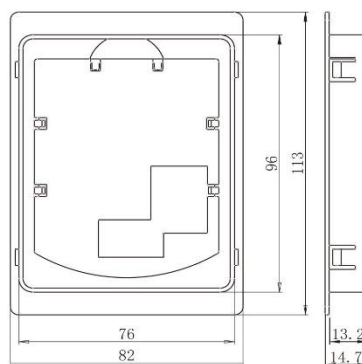
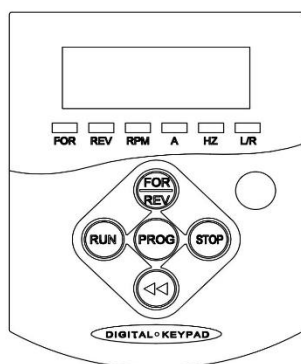
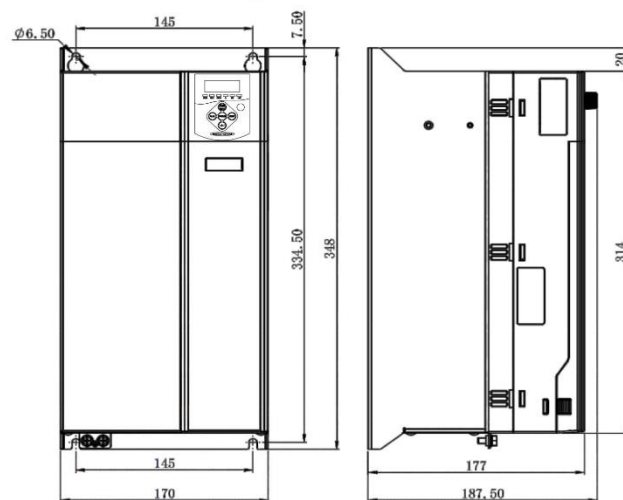
2. SW300-2 shape and installation size



3. SW300-3 shape and installation size



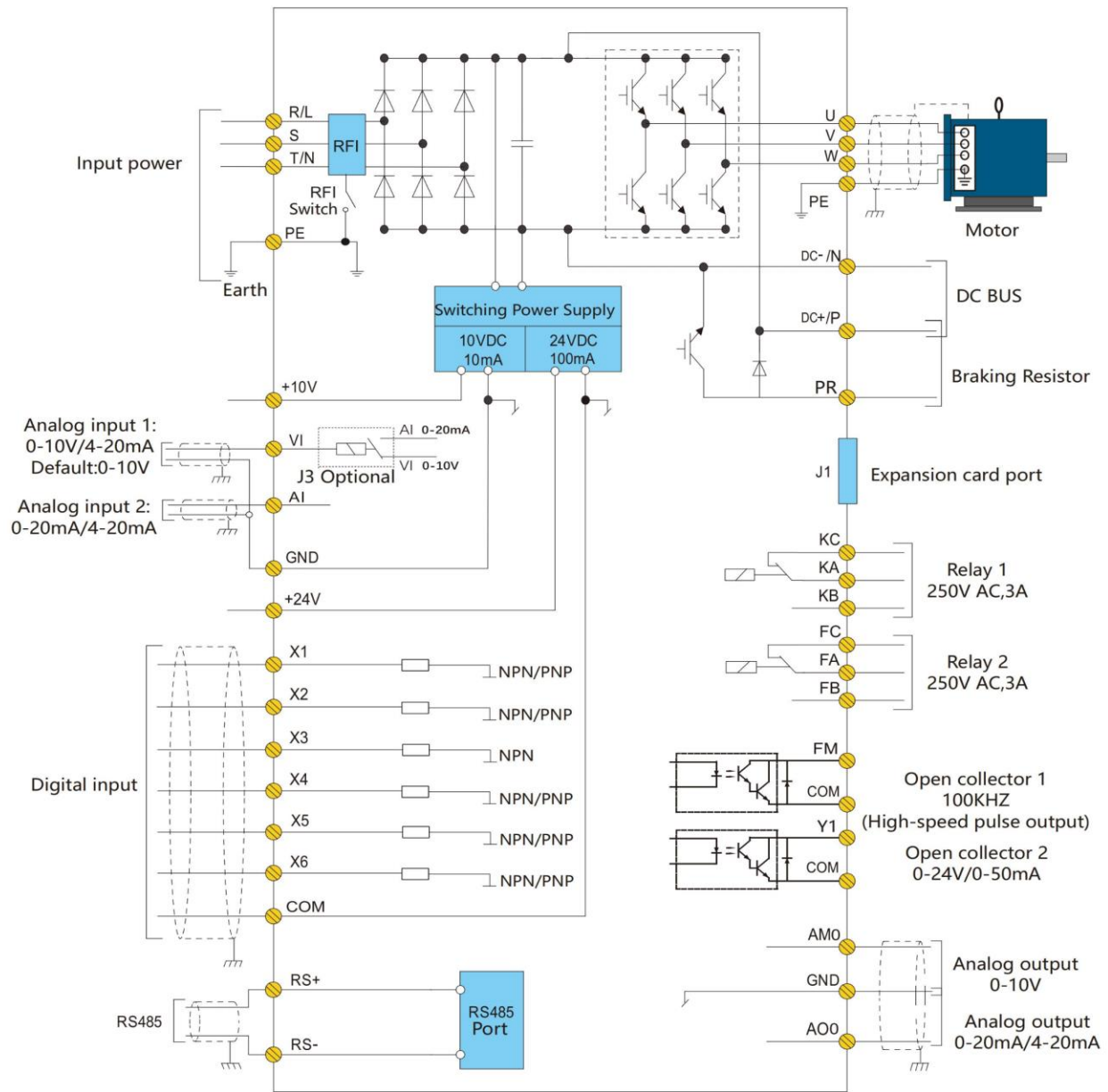
4. SW300-4 shape and installation size



Dimensions	W	H
Panel size	76	96

Model No.	Power (KW)	Output current (A)	Dimension(mm)			Installation(mm)			DIM
			H	W	D	H1	W1	d	
SW300-R75G1B	0.75	4	173	65	151	165	45	4.6	SW300-1
SW300-1R5G1B	1.5	7							
SW300-2R2G1B	2.2	9.6							
SW300-003G1B	3	13	219	85	164	211	65	4.6	SW300-2
SW300-004G1B	4	17							
SW300-R75G3B	0.75	2.1	173	65	151	165	45	4.6	SW300-1
SW300-1R5G3B	1.5	3.8							
SW300-2R2G3B	2.2	5.1							
SW300-003G3B	3	7							
SW200-004G3B	4	9	219	85	164	211	65	4.6	SW300-2
SW300-5R5G3B	5.5	13							
SW300-7R5G3B	7.5	17							
SW300-011G3B	11	25	324	116	187	312	80	6	SW300-3
SW300-015G3B	15	32							
SW300-018G3B	18.5	37	348	170	188	335	145	6	SW300-4
SW300-022G3B	22	45							
SW300-030G3B	30	60							
SW300-037G3	37	75	430	288	223	414	170	7	SW300-5
SW300-045G3	45	90							
SW300-055G3	55	110	580	337	242	553	270	12	SW300-6
SW300-075G3	75	152							
SW300-090G3	90	187	650	379	242	623	270	12	SW300-7
SW300-110G3	110	210							
SW300-132G3	132	253	700	410	350	678	280	14	SW300-8
SW300-160G3	160	304							
SW300-185G3	185	340	888	570	390	850	380	12	SW300-9
SW300-200G3	200	380							
SW300-220G3	220	426							
SW300-250G3	250	465	1050	665	392	1012	515	14	SW300-10
SW300-280G3	287	520							
SW300-315G3	315	585							
SW300-355G3	355	650	1100	824	417	1060	600	14	SW300-11
SW300-400G3	400	725							
SW300-450G3	450	820							
SW300-500G3	500	950							

III, Wiring Diagram

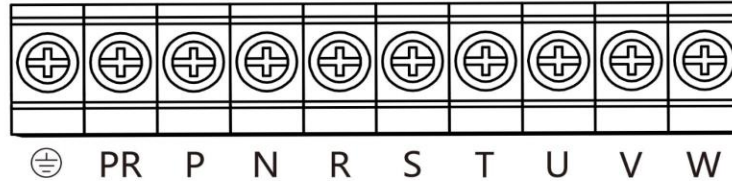


SW300 series wiring diagram

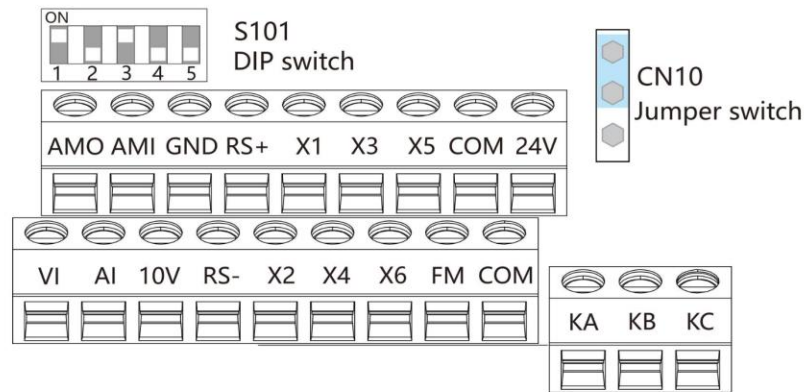
IV, Control Circuit Terminal Function

Control Circuit terminal description

SW300 Main terminal



SW300 Control terminal



Terminal	Description	Specification
X1-X6	Digital input terminal	1.Logic: >DC19V Digital 0;the terminal function is invalid. <DC14V Digital 1;the terminal function is valid. 2.Input Voltage range:0~30V 3.Input Impedance:3.6KΩ X3 can be used as pulse input, pulse input range 0.00-100.00KHZ
COM	Digital signal ground	Common port for connecting digital signal input
RS+,RS-	RS485 Communication	Max baud rate 38400bit/s.
KA-KB-KC	Relay output	1.Resistive load: 250VAC 3A/30V DC 3A; 2.Inductive load: 250VAC 0.2A/24V DC 0.1 A(cos φ=0.4); 3.KA and KC NC Terminal/KA and KB NO Terminal FA and FC NC Terminal/FA and FB NO Terminal
+10V	10V Power	Maximum output current 10mA
VI/AI	Analog input terminal	0-10V voltage input or 0-20mA current input 1.Voltage input: Input Impedance about 10KΩ 2.Current input: Input Impedance ≤500Ω;
AM0/AMI	Analog output terminal	1.AM output voltage range:0-10V; AO range:0-20ma 2.Output voltage: Load impedance > 500Ω
GND	Analog signal ground	Common port for connecting analog signal input
+24V	24V Power	Provide +24V power,maximum output current 100mA
FM	High speed pulse output	Terminal output mode for high-speed pulse output, the highest frequency to 100 KHZ
CN10	Jumper switch	Choice of NPN or PNP for multifunction terminals X1-X6 (except X3)
S101	DIP switch	Select VI,AMO and AMI for voltage power switching use