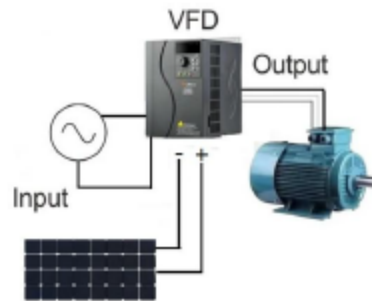


Thank you for choosing SAVCH inverter!

SAVCH S3100 series inverter are widely used in solar photovoltaic power supply system. It is powered by solar panels to supply DC power, then the inverter converts the DC power to AC three phase power source for the water pump and fan. It can work with dc solar panel source from 400V dc to 800V DC or AC 3 phase from 270V AC to 380V AC and can work with hybrid system two sources in the same time, DC and AC and can share the consumption power. The whole system is easy and reliable to install, energy saving, environmental protection, high efficiency and long life time.

### S3100 Solar system constitute



#### 1.2 Electric specifications of 380V three phase Series

Item	Specifications									
Type(S3100-4T***G)	0.75	1.5	2.2	4.0	5.5	7.5	11	15	18.5	
Nominal applied motor[kW](rated output)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	
Rated output	Rated power [kVA] <sup>(*)</sup>	1.9	2.8	4.1	6.8	9.9	13	18	22	29
	Voltage [V]	3 ph 380~460V(With AVR function)								
	Rated current [A] <sup>(*)</sup>	2.5 (3.2)	3.7 (4.7)	5.5 (6.5)	9.0 (11.8)	13 (15.0)	18 (21.7)	24 (28.5)	30 (35.4)	39 (42)
	Overload capability <sup>(*)</sup>	G Specifications:150%(120%)-%-1min(P Specifications:120%-1min)								
Input power	Voltage, frequency	380~460V,50Hz /60Hz								
	Voltage, frequency variations	Voltage: ± 10% (Interphase unbalance rate is within 2%, frequency:+5~-5%)								
	Required power supply capacity(with DCR) [kVA] <sup>(*)</sup>	—								
	Rated input current (without DCR) [A]	3.1	5.9	8.2	13	17.3	23.2	33	43.8	52.3
	Rated input current (with DCR) [A]	—								
Braking transistor	Standard built-in									
DC reactor(DCR)	—									
Enclosure	IP20 closed type									
Cooling method	Fan cooling									

Item		Specifications							
Type(S3100-4T***G)		22	30	37	45	55	75	90	110
Nominal applied motor[kW](rated output)		22	30	37	45	55	75	90	110
≡	Rated power [kVA] (*1)	34	45.7	57.1	69	85	114	134	160
	Voltage [V]	3 ph 380~460V(With AVR function)							
	Rated current [A] (*4)	45 (60)	60 (75)	75 (91)	91 (112)	112 (150)	150 (176)	176 (210)	210 (253)
Overload capability (*4)		G Specifications:150%(120%)-%-1min(P Specifications:120%-1min)							
Voltage, frequency		380~460V, 50Hz /60Hz							
Voltage, frequency variations		Voltage: ±10% (Interphase unbalance rate is within 2%, frequency:+5~-5%)							
Required power supply capacity(with DCR) [kVA] (*2)		60.6	40	48	58	71	96	114	140
Rated input current (without DCR) [A]		-							
Rated input current (with DCR) [A]		-	62	76	90	105	140	160	210
Braking transistor		Standard built-in			-				
DC reactor(DCR)		-	Model customization						Optional (*3)
Enclosure		IP20 closed type	IP00						
Cooling method		Fan cooling							

Item		Specifications							
Type (S3100-4T***G)		132	160	200	220	280	315	355	400
Nominal applied motor[kW](rated output)		132	160	200	220	280	315	355	400
Rated output	Rated power [kVA] (*1)	192	231	287	316	396	445	495	563
	Voltage [V]	3 ph 380~460V(With AVR function)							
Input power	Rated current [A] (*4)	253 (304)	304 (377)	377 (415)	415 (520)	520 (585)	585 (650)	650 (740)	740 (820)
	Overload capability (*4)	G Specifications:150%(120%)-%-1min (P Specifications:120%-1min)							
	Voltage, frequency	380~460V,50Hz /60Hz							
	Voltage, frequency variations	Voltage: ± 10% (Interphase unbalance rate is within 2%, frequency:+5~-5%)							
	Required power supply capacity(with DCR) [kVA] (*2)	165	199	248	271	347	388	436	489
	Rated input current (without DCR) [A]	—							
	Rated input current (with DCR) [A]	240	290	370	410	500	559	665	785
Braking transistor		—							
DC reactor (DCR)		Optional (*3)							
Enclosure		IP00							
Cooling method		Fan cooling							

(\*1) Rated capacity is calculated by assuming the output rated voltage as 440V.

(\*2) Obtained when a DC reactor (DCR) is used.

(\*3)DC reactor (DCR) is optional part, inverter of 110KW or above must use together with the DC reactor (DCR).

(\*4)Brackets"\*\*\*\*"in the table is the content for the P-type machine rated current and overload capacity.

### Input specification for solar application

Input specification	
PV Input	
Maximum Input DC Voltage	800VDC
Recommended Voc Range	650-750VDC
Recommended MPPT Voltage Range	550-650VDC
Grid or backup generator input	
Input Voltage	Three phase 380V (-15%-30%)
Output specification	
Rated output voltage	3PH 380V
Output frequency	0~600.00Hz( Default:0~50.00Hz)
Protection	
Built-in Protection	Lighting Protection, over-current, overvoltage, output phase-lose,under-load, under-voltage, short circuit, overheating, water pump run dry etc.