

11. Technical parameters

Models	SVP48100LV-P	SVP48100LV	SVP48120LV-P	SVP48120LV
Parallel mode				
Permitted parallel number	1~6	NO	1~6	NO
AC mode				
Rated input voltage	120(L1/N, L2/N)/240Vac(L1/L2)			
Input phase voltage range	(85Vac~ 140Vac)±2%			
Frequency	50Hz/60Hz (Auto detection)			
Frequency Range	47±0.3Hz~55±0.3Hz (50Hz); 57±0.3Hz~65±0.3Hz (60Hz);			
Overload/ short circuit protection	Circuit breaker			
Efficiency	>95%			
Conversion time (bypass and inverter)	10ms (typical)			
AC reverse protection	Yes			
Maximum bypass phase overload current	2pole, 60A/60A(L1/L2)			
Inverter mode				
Output voltage waveform	Pure sine wave			
Rated output power (VA)	Split phase: 10000		Split phase: 12000	
	Single phase: 7200 (limited by the wiring terminals)		Single phase: 7200 (limited by the wiring terminals)	
Rated output power (W)	Split phase: 10000		Splitphase:12000	
	Single phase: 7200 (limited by the wiring terminals)		Singlephase:7200 (limitedbythewiringterminals)	
Power factor	1			
Rated output voltage (Vac)	120Vac (L1/N, L2/N)/240Vac(L1/L2)			
Output voltage error	±5%			
Output frequency range (Hz)	50Hz±0.3Hz/60Hz±0.3Hz			

Maximum Efficiency	>91%	
Overload protection	(105% < load < 110%) ±5%: report error and turn off the output after 5 minutes; (110% < load < 125%) ± 5%: report error and turn off the output after 10 seconds; Load > 125% ±5%: report error and turn off the output after 5 seconds;	
Peak power	Split phase: 15000VA	Split phase: 18000VA
	Single phase: 10800VA	Single phase: 18000VA
Loaded motor capability	5HP	6HP
Output short circuit protection	Can protect, after continuous short circuit for 1 second	
Bypass circuit breaker phase specification	2pole, 63A/63A(L1/L2)	
Rated battery input voltage	51.2V (Minimum starting voltage 44V)	
Battery voltage range	40.0Vdc~58.6Vdc±0.6Vdc (Under voltage alarm/shutdown voltage/over voltage alarm /over voltage recovery... settable on LCD screen)	
Power saving mode self-consumption	Load per phase is null or less than 25W enter power-saving mode	
AC charging		
Battery type	Lead acid or lithium battery	
Maximum charge current(can be set)	120A	160A
Charge current error	±5A _{dc}	
Charge voltage range	40 –58.6V _{dc}	
Short circuit protection	Circuit breaker and blown fuse	
Circuit breaker phase specifications	2pole, 60A/60A(L1/L2)	
PV charging		
Number of MPPT groups	2	
Maximum PV open circuit voltage	500V _{dc}	
PV operating voltage range	90V _{dc} ~485V _{dc}	
MPPT voltage range	90V _{dc} ~450V _{dc}	

Battery voltage range	40-58.6Vdc
Maximum PV input power	6000W+6000W
Maximum PV input current	22A+22A
PV charge current(can be set)	220A
Charging short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
Hybrid charging Max charger current specifications (AC charger+PV charger)	
Max charger current(can be set)	0-220A
Certified specifications	
Certification	UL1741 / CSA C22.2#107.1
EMC certification level	FCC part15, CLASS B
Operating temperature range	-10°C to 55°C(>45°C derating)
Storage temperature range	-25°C ~ 60°C
Humidity range	5% to 95% (Conformal coating protection)
Noise	≤60dB
Heat dissipation	Forced air cooling, variable speed of fan
Communication interface	USB/RS485(/WiFi/GPRS)/ Dry node control
Size (L*W*D)	620mm*450mm*132mm
Weight (kg)	23.8