

FLEXIBLE CONFIGURATION

- 62.5kW to 500kW by 1 to 8 power modules.
 3P3W AC output for 400/480/208/690Vac interconnection w/ external transformer.

EXTENSIVE USE

Multiple battery strings working in parallel or independently to allow easy power and energy expansion.

HIGH EFFICIENCY & STABILITY

- Maximum efficiency up to 98.2%.
 Multi-string technology for better battery safety and performance.

COMPLIANCE & COMPATIBILITY

- Compatible with various types of battery system.
 Global grid certified & listed.





SPECIFICATION

Model	PWS1-500KTL-EX- 8M1	PWS1-500KTL-EX- 8M4	PWS1-500KTL-EX- 8M8	
Utility-interactive Mode				
Nominal power		500kVA ¹		
AC max power		550kVA ¹		
AC frequency		50/60(-2.5~2.5) Hz		
AC voltage		400(-15%~15%) Va		
Battery voltage range		600~900Vdc		
Quantity of battery strings		4	8	
DC max current in each branch	880A	220A	110A	
THDi		≤3%		
	Listed: 0.	.8~1 leading or lagging (Co	ontrollable)	
AC PF	Actual: 0.1~1 leading or lagging (Controllable)			
Stand-alone Mode				
Nominal AC output power		500kVA ¹		
AC max power		550kVA ¹		
AC frequency	50/60(-2.5~2.5) Hz			
AC output voltage	380/400(±10% configurable) Vac			
Battery voltage range		600~900Vdc		
Quantity of battery strings	1	4	8	
DC max current in each branch	880A	220A	110A	
Output THDu		≤2% (Linear load)		
	Listed: 0.8~1 leading or lagging (Load-depend)			
AC PF	Actual: 0.1~1 leading or lagging (Load-depend)			
		110%~115% 10min		
Overload Capability	115%~125% 1min			
	125%~150% 200ms			

^{1.} Power could be 62.5Kw to 500Kw by equipping different numbers of power modules.



SPECIFICATION

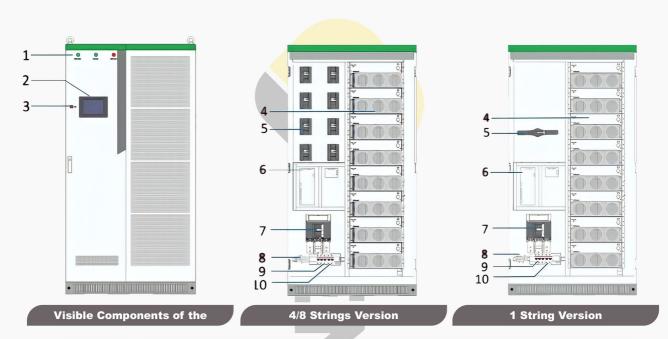
	Physical		
Cooling	Forced air cooling		
Noise	<75dB		
Enclosure	NEMA1 IP20 and optional IP54 with outdoor cabinet		
Max elevation	3000m/10000feet (> 3000m/10000feet derating)		
Operating ambient temperature	-20°C to 50°C (De-rating over 45°C)		
Humidity	0 ~95% (No condensing)		
Size (W×H×D)	1100×2160×800 mm		
Weight	Cabi <mark>net 280kg</mark> + Module 40kg*n (n=1,2,,8)		
Installation	Floor standing		
	Other		
Efficiency curve	95.00% 95.00% 95.00% 95.00% 96.00% 97.102 750.0 V: 97.102 750.0 V: 97.453 640.0 V: 97.674		
CEC efficiency			
Protection	OTP, AC OVP/UVP, OFP/UFP, EPO, AC Phase Reverse, Fan/Relay Failure, OLP, GFDI, Anti-islanding		
Configurable protection limits	Upper/Lower AC Voltage/Frequency limit, Battery EOD voltage.		
AC connection	3-Phase 3-Wire		
Display	Touch Screen		
Communication	RS485, CAN, Ethernet		
Isolation	Non-isolation		
Certification	CE LVD IEC 62477, CE EMC IEC 61000 EN 50549-1:2019, EN50549-2 G99, AS4777.2:2020, VDE 4110, CE10-16 Synergrid listing		
	Short circuit		
Fault current	1600A		
- 1/ / //			



80ms

Fault duration

APPEARANCE



Position	Designation Description
1	Indicator lights
2	Touch Screen
3	EPO (Emergency Power Off)
4	PCS-AC (1~8 module(s)) 62.5KW per unit
5	DC disconnector 1 or 8
6	Main control board
7	AC Switch
8	Wiring terminal
9	SPD switch
10	AUX Power supply switch