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SWS

P30E100-AC P40E100-AC P50E100-AC
P30E72-AC P40E86-AC

Smart Energy Storage Outdoor Cabinet

- Support multi-stage parallel, diesel/off-grid port can be in parallel
- Lightning protection Integrated(Type II)
- ALL-IN-ONE modularized design
- Intelligent operation management
- Built-in EMS function for improved energy efficiency management



Model	SWS-P30E100-AC	SWS-P40E100-AC	SWS-P50E100-AC	SWS-P30E72-AC	SWS-P40E86-AC
PV input parameters					
Maximum Input Power [W]	60000	80000	100000	60000	80000
Maximum input voltage [V]			1000		
MPPT operating voltage range [V]			180-900		
Maximum input current [A]			40		
Maximum short-circuit current [A]			60		
MPPT quantity	3	4	4	3	4
Number of strings per MPPT input			2		

Grid-connected output parameters (AC)					
Rated power [W]	30000	40000	50000	30000	40000
Maximum apparent power [VA]	33000	44000	55000	33000	44000
Rated voltage			380V/400V, 3L/N/PE		
Nominal Frequency			50Hz/60Hz		
Maximum current [A]	43.3	57.7	72.2	43.3	57.7
Power factor range			0.8 ind..0.8 cap		
THDI (@ rated power)			< 3%		

Off-grid output parameters (AC)					
Rated voltage			380V/400V, 3L/N/PE		
Nominal Frequency			50Hz/60Hz		
Rated output current [A]	43.3	57.7	72.2	43.3	57.7
Rated output Power [W]	30000	40000	50000	30000	40000
Maximum apparent output power @60s [VA]	36000	48000	60000	36000	48000
Maximum apparent output power @30s [VA]	45000	60000	75000	45000	60000
Backup switch time			< 10ms		

Battery parameters					
Operating voltage range [V]		324.8-397.6		232-284	278.4-340.8
Battery model			SWC14.34-H1		
Rated charge / discharge current [A]			140A/140A		
Maximum charge / discharge current [A]			200A/200A		
Battery quantity		7		5	6
Single pack battery capacity [kWh]			14.3		
Rated capacity [kWh]		100.1		71.5	85.8
Usable capacity [kWh]		90.1		64.4	77.2

Temperature control system	
Cooling concept	Constant humidity and constant temperature air conditioning

Fire extinguisher system	
Active fire fighting	Detector + thermal aerosol fire extinguishing device
Passive fire fighting	Thermal aerosol fire-extinguishing unit

Essential parameter	
Dimensions (W*H*D) [mm]	1000*2050*1200
Weight [t]	1.3
Levels of protection	IP55
Anti-corrosion grade	C4

Certification	
Transportation	UN38.3
Safety	IEC62109-1/2、IEC-62477-1
EMC	EN 61000-6-2/4、IEC61000
Grid	CEI 0-21、NRS097-2-1:2017、VDE-AR-N 4105:2018、CQC 3310-2014

SWS

P100E215-HC

Smart Energy Storage Outdoor Cabinet

- Three levels of active and passive safety management
- ALL-IN-ONE modular design
- 3S integration
- Intelligent operation management
- BMS three-level management
- Matching multi-scenario requirements



Model	SWS-P100E215-HC
DC Side	
Battery Type	LFP 3.2V/280 Ah
Cell Configuration	240S1P
Battery Capacity (BOL) at DC Side [kWh]	215
Nominal DC Voltage [V]	768
DC Voltage Range [V]	624-876

AC Side	
Nominal AC Power [kW]	100
Max. THD of Current	<3% (at nominal power)
DC Current Injection	<0.5% (at nominal power)
AC Connection	Three-Phase Four-Wire System
Nominal Grid Voltage [V]	400
Grid Voltage Range [V]	360 - 440
Power Factor	-1~+1
Nominal Grid Frequency [Hz]	50
Grid Frequency Range [Hz]	45 - 55

Battery System	
Dimensions(W*H*D) [mm]	1030*2390*1300
Weight [t]	≤ 2.5
Max.Cycle Efficiency	92%
Protection Level	IP55
Anti-Corrosion Grade	C4/C5 (option)
Relative Humidity	0 %~95 % (no condensing)
Operation Temperature	-20 °C~55 °C (>45 °C derating)
Standard Altitude	≤2000m (>2000 derating)
Noise	<70 dB
Cooling Mode	Liquid cooling
Fire Protection	Pack & Cabinet NOVEC1230 + Water fire Interface
Communication Interface	LAN
Communication Protocol	MODBUS-TCP
Certification & Safety Standard	GB/T36276、GB/T34131、GB/T34120、GB/T34133

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More Information

SW

10/12/15/17/20/25kW

Three-phase On-grid Inverter

- 150% oversizing and 110% overloading
- DC/AC surge protection: Type II
- Wide voltage range and low startup voltage
- Flexible optional monitoring modes



Model	SW010KTL-T1-BM22	SW012KTL-T1-BM22	SW015KTL-T1-BM24	SW017KTL-T1-BM24	SW020KTL-T1-BM24	SW025KTL-T1-BM24
DC Input						
Max. Input Power [W]	15000	18000	22500	25500	30000	37500
Max. Input Voltage [V]	1100					
MPPT Voltage Range [V]	160~1000					
Rated Input Voltage [V]	600					
Start-up Voltage [V]	200					
No. of MPPT Trackers	2					
No.of PV Strings per MPPT	1	1	2	2	2	2
Max. Input Current Per MPPT [A]	20	20	40	40	40	40
Max. Short Circuit Current Per MPPT [A]	25	25	50	50	50	50

AC Output						
Rated Output Power [W]	10000	12000	15000	17000	20000	25000
Max. Output Apparent Power [VA]	11000	13200	16500	18700	22000	27500
Max. Output Current [A]	15.9	19.1	25.1	27	32	40
Rated Grid Voltage [V]	3L/N/PE; 220/380, 230/400					
Rated Grid Frequency [Hz]	50/60					
Power Factor [cos φ]	1 (+/-0.8, adjustable)					

Efficiency	
Max. Efficiency	98.6%
EU Efficiency	98.2%

Protection	
DC Switch	Integrated
Insulation Resistance Monitoring	Integrated
Input Reverse Polarity Protection	Integrated
Anti-island Protection	Integrated
Residual Current Monitoring	Integrated
AC Overcurrent Protection	Integrated
AC Short-Circuit Protection	Integrated
DC Surge Protection	Integrated (Type II)
AC Surge Protection	Integrated (Type II)

General Data	
Dimensions (W*H*D) [mm]	405*375*213
Weight [kg]	23
Display	LED/APP
Communication	WiFi / RS485 / 4G (Optional)
Operating Temperature Range [°C]	-25~+60
Relative Humidity	0~100%
Operation Altitude [m]	≤4000 (>2000 derating)
Topology	Transformerless
Type of Cooling	Smart Fan-cooling
Ingress protection	IP66

SW

30/33kW

Three-phase On-grid Inverter

- DC/AC surge protection: Type II
- 110% overloading
- Supports remote firmware upgrades
- Wide voltage range and low startup voltage



Model	SW030KTL-T1-DM35	SW030KTL-T1-DM36	SW033KTL-T1-DM36
DC Input			
Max. Input Voltage [V]	1100		
MPPT Voltage Range [V]	160~1000		
Rated Input Voltage [V]	600		
Start-up Voltage [V]	200		
No. of MPPT Trackers	3		
No.of PV Strings per MPPT	2/1/2		2/2/2
Max. Input Current Per MPPT [A]	40/20/40		40/40/40
Max. Short Circuit Current Per MPPT [A]	50/30/50		50/50/50

AC Output			
Rated Output Power [W]	30000	30000	33000
Max. Output Apparent Power [VA]	33000	33000	36300
Max. Output Current [A]	48	48	52.6
Rated Grid Voltage [V]	3L/N/PE; 220/380, 230/400		
Rated Grid Frequency [Hz]	50/60		
Power Factor [cos φ]	1 (+/-0.8, adjustable)		

Efficiency	
Max. Efficiency	98.6%
EU Efficiency	98.2%

Protection	
DC Switch	Integrated
Insulation Resistance Monitoring	Integrated
Input Reverse Polarity Protection	Integrated
Anti-island Protection	Integrated
Residual Current Monitoring	Integrated
AC Overcurrent Protection	Integrated
AC Short-Circuit Protection	Integrated
DC Surge Protection	Integrated (Type II)
AC Surge Protection	Integrated (Type II)

General Data	
Dimensions (W*H*D) [mm]	475*415*220
Weight [kg]	24
Display	LED/APP
Communication	WiFi / RS485 / 4G (Optional)
Operating Temperature Range [°C]	-25~+60
Relative Humidity	0~100%
Operation Altitude [m]	≤4000(>2000 derating)
Topology	Transformerless
Type of Cooling	Smart Fan-cooling
Ingress Protection	IP66

SW

15/20/25/30/36kW

Three-phase On-grid Inverter

- 150% oversizing
- Compatible with 600W+ modules
- Optional PID recover
- Support DC Arc Protection
- Intelligent I-V curve scanning
- String Detection
- C5 anti-corrosion grade



Model	SW015KTL-T1-EM24-V1	SW020KTL-T1-EM24-V1	SW025KTL-T1-EM36-V1	SW030KTL-T1-EM36-V1	SW036KTL-T1-EM48-V1
DC Input					
Max. Recommended Input Power [W]	22500	30000	37500	45000	54000
Max. Input Voltage [V]	800				
MPPT Voltage Range [V]	180-800				
Rated Input Voltage [V]	360				
Start-up Voltage [V]	200				
No. of MPPT Trackers	2	2	3	3	4
No. of PV Strings per MPPT	2	2	2	2	2
Max. Input Current per MPPT [A]	40	40	40	40	40
Max. Short Circuit Current per MPPT [A]	50	50	50	50	50
AC Output					
Rated Output Power [W]	15000	20000	25000	30000	36000
Max. Output Apparent Power [VA]	16500	22000	27500	33000	39600
Max. Output Current [A]	41	55	69	82	99
Rated Grid Voltage [V]	3L/N/PE; 127/220,133/230				
Rated Grid Frequency [Hz]	50/60				
Power Factor [cos φ]	1 (+/-0.8, adjustable)				
Efficiency					
Max. Efficiency	97.80%				
Euro Efficiency	97.30%				
Protection					
DC Switch	Integrated				
Insulation Resistance Detection	Integrated				
Input Reverse Polarity Protection	Integrated				
Anti-island Protection	Integrated				
Residual Current Monitoring	Integrated				
AC Overcurrent Protection	Integrated				
AC Short-circuit Protection	Integrated				
String Detection	Integrated				
DC Surge Protection	Integrated (Type II)				
AC Surge Protection	Integrated (Type II)				
AFCI	Optional				
IV Curve Scanning	Optional				
PID Recovery	Optional				
General data					
Dimensions (W*H*D) [mm]	623*523*235				
Weight [Kg]	35.9				
Display	LED& Bluetooth+APP				
Communication	WiFi /LAN/ RS485 /4G (Optional)				
Operating Temperature Range [°C]	-30 ~ +60				
Relative Humidity	0 ~ 100%				
Operation Altitude [m]	≤ 4000 (> 3000 derating)				
Topology	Transformerless				
Type of Cooling	Smart fan-cooling				
Protection Class	IP66				

SW

40/50/60kW

Three-phase On-grid Inverter

- 150% oversizing
- Compatible with 650W+ modules
- Optional PID recovery
- Optional DC Arc protection



Model	SW040KTL-T1-EM36	SW040KTL-T1-EM48	SW050KTL-T1-EM48	SW060KTL-T1-EM48
DC Input				
Max. Input Power [W]	60000	60000	75000	90000
Max. Input Voltage [V]	1100			
MPPT Voltage Range [V]	180~1000			
Rated Input Voltage [V]	600			
Start-up Voltage [V]	200			
No. of MPPT Trackers	3		4	
No.of PV Strings per MPPT	2		2	
Max. Input Current per MPPT [A]	40		40	
Max. Short Circuit Current Per MPPT [A]	50		50	

AC Output				
Rated Output Power [W]	40000	40000	50000	60000
Max. Output Apparent Power [VA]	44000	44000	55000	66000
Max. Output Current [A]	66	66	84	100
Rated Grid Voltage [V]	3L/N/PE; 220/380, 230/400			
Rated Grid Frequency [Hz]	50/60			
Power Factor [cos φ]	1 (+/-0.8, adjustable)			

Efficiency	
Max. Efficiency	98.8%
EU Efficiency	98.3%

Protection	
DC Switch	Integrated
Insulation Resistance Monitoring	Integrated
Input Reverse Polarity Protection	Integrated
Anti-island Protection	Integrated
Residual Current Monitoring	Integrated
AC Overcurrent Protection	Integrated
AC Short-circuit Protection	Integrated
String Detection	Integrated
DC Surge Protection	Integrated (Type II)
AC Surge Protection	Integrated (Type II)
AFCI	Optional
IV Curve Scanning	Optional
PID Recovery	Optional

General Data	
Dimensions (W*H*D) [mm]	623*523*235
Weight [kg]	35.9
Display	LED& Bluetooth+APP
Communication	WiFi/LAN/RS485/4G (Optional)
Operating Temperature Range [°C]	-30 ~ +60
Relative Humidity	0~100%
Operation Altitude [m]	≤4000(>3000 derating)
Topology	Transformerless
Type of Cooling	Smart Fan-cooling
Protection Class	IP66