

# PWG2-50/100K-EX SOLAR + STORAGE HYBRID INVERTERS



## FEATURES

### 01 SOLAR + STORAGE HYBRID INVERTERS

- Photovoltaic DC coupld.
- Photovoltaic can be connected to a maximum of twice the capacity of the device.

### 02 HIGH EFFICIENCY & STABILITY

- High stability, modular design support N+1
- With MPPT function to enhance system power generation.

### 03 INDEPENDENT OPERATION

- Self-contained solar storage operation strategy.
- Support self-generation, micro-grid application.

### 04 SAFETY AND RELIABILITY

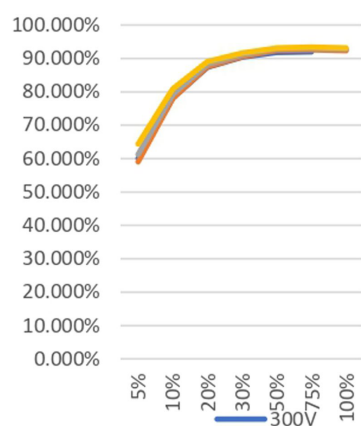
- Support communciation with BMS, EMS system.
- Support IP54 protection level.

# SPECIFICATION

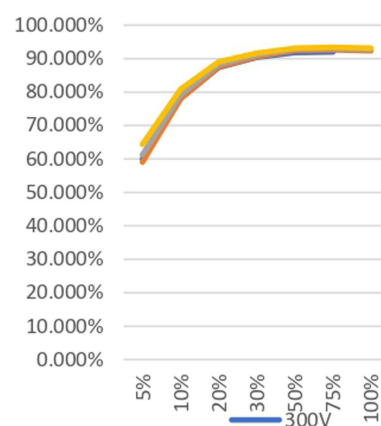
Model	PWG2-50K-EX	PWG2-50K-EX
Utility-interactive Mode		
Battery voltage	250~520V	
Battery maximum continuous current	130A	260A
PV input voltage	520Vdc~900Vdc(MPPT 520Vdc-800Vdc)	
PV input power	100kW	200kW
Py input maximum continuous current	192A	384A
AC voltage	400Vac(3W/N/PE)	
AC current (Grid and Local Load)	72A	144A
AC power (Grid and Local Load)	50kW	100kW
AC frequency	50Hz	
Output THDI	≤3%	≤3%
AC PF	Listed: 0.8~1 leading or lagging (Controllable)	
	Actual: 0.1~1 leading or lagging (Controllable)	
Stand-alone Mode		
Battery voltage	250~520V	
Battery maximum continuous current	130A	260A
PV input power	100kW	200kW
PV input voltage	520Vdc~900Vdc(MPPT 520Vdc-800Vdc)	
Py input maximum continuous current	192A	384A
AC voltage	400Vac(3W/N/PE)	
AC current (Local Load)	72A	144A
AC power (Local Load)	50kW	100kW
AC Max Power	55kW	110kW
Output THDu	≤2%	≤2%
AC frequency	50 Hz	
AC PF	Listed: 0.8~1 leading or lagging (Load-depend)	
	Actual: 0.1~1 leading or lagging (Load-depend)	
Overload Capability	105%~115% 10min	
	115%~125% 1min	
	125%~150% 200ms	

# SPECIFICATION

Physical		
Cooling	Forced air cooling	
Noise	<75dB	
Enclosure	IP20	
Max elevation	3000m/10000feet (>2000m/6500feet derating)	
Operating temp.	-20°C to 50°C (De-rating over 45°C)	
Humidity	0~95% (No condensing)	
Size (W*H*D)	800*2160*800mm	
	31.5*85*31.5 inches	
Weight	520kg	750kg
Installation	Floor standing	
Other		
CEC efficiency	-	-
Protection	OTP, AC OVP/UVP, OFP/UFP, EPO, AC Phase Reverse,	
Certification	IEC 62477, IEC 61000, AS 4777.2:2020, Amd:1:2021 EN 50549-1:2019, VDE-4105:2018, VDE 0126-1-1:2013 NRS 097-2-1:2017, PEA, MEA OVE-Richtlinie R 25:2020	

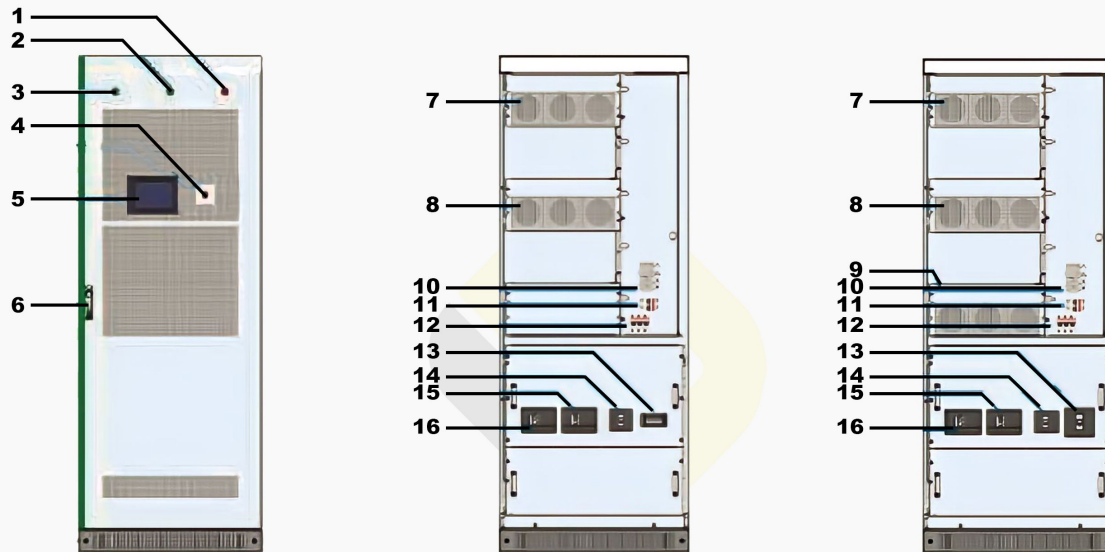


PWG2-50K Efficiency curve



PWG2-100K Efficiency curve

# APPEARANCE



Visible Components of the PCS

with STS module

without STS module

Position	Designation	Description
1	Indicator lights	
2	Indicator lights	
3	Indicator lights	
4	EPO (Emergency Power Off)	
5	Touch Screen	
6	Door handle	
7	PCS-DC (1~2 module(s))	50kW 1 set; 100kW 2 sets;
8	PCS-AC (1~2 module(s))	50kW 1 set; 100kW 2 sets;
9	STS module	Switching device; Only for the models with STS
10	Wiring Terminal	Digital Input and Digital Output
11	AUX power supply switch	
12	SPD switch	
13	Manual Soft Start Switch	Only for the models without STS
Or	AC breaker (Grid)	Only for the models with STS
14	AC breaker (Grid)	Only for the models without STS
Or	AC breaker (Load)	Only for the models with STS
15	Battery switch	
16	PV DC switch	