



Features

- Modular design and wide power range in single cabinet
- Bi-directional Power Conversion System
- Built-in transformer
- Grid-support functions
- Flexible configuration
- Support PV access

Supported Battery Types:

- Lithium-ion based battery
- Lead-carbon battery

Specification

Model	PWG2-50K-CN	PWG2-100K-CN
Utility-interactive Mode		
Battery voltage range	400V(250~520V)	
Batter DC Max Current	150A	300A
PV Voltage Range	520~900V (MPPT 520V~800V)	
PV DC. Max Current (in case of completely consumption)	192A	384A
AC voltage	400V(340V~460V)	
AC current	72A	144A
Nominal power	50kVA	100kVA
AC frequency	50/60Hz(±2.5Hz)	
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 range	250~520V	
Battery DC Max Current	150A	300A

PV Voltage Range	520~900V (MPPT 520V~800V)	
PV DC. Max Current (in case of completely consumption)	192A	384A
AC output voltage	400V(±10% configurable)	
AC output current	72A(Max 79A)	144A(Max 159A)
Nominal AC output power	50kVA	100kVA
AC Max Power	55kVA	110kVA
Output THDu	≤2%	≤2%
AC frequency	50/60Hz	
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

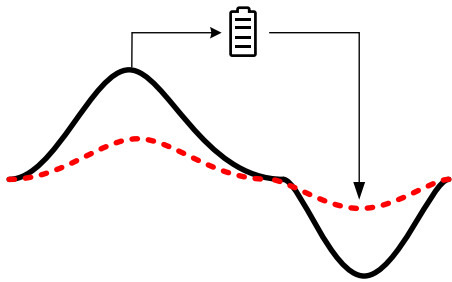
Physical

Cooling	Forced air cooling	
Noise	70dB	
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	

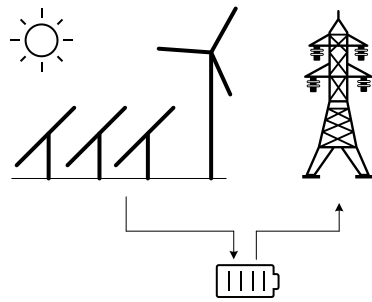
Other

Peak efficiency	95.50%	95.50%
CEC efficiency	-	-
Protection	OTP, AC OVP/UVF, 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 4-Wire	
Display	Touch Screen	
Communication	RS485,CAN,Ethernet	
Isolation	Built-in Transformer	

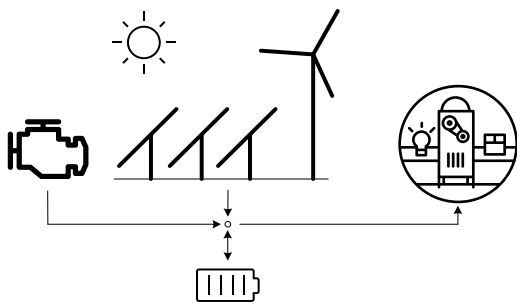
Applications



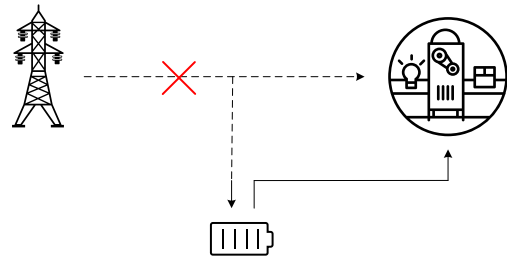
Demand Charge Management



Customer Self Supply

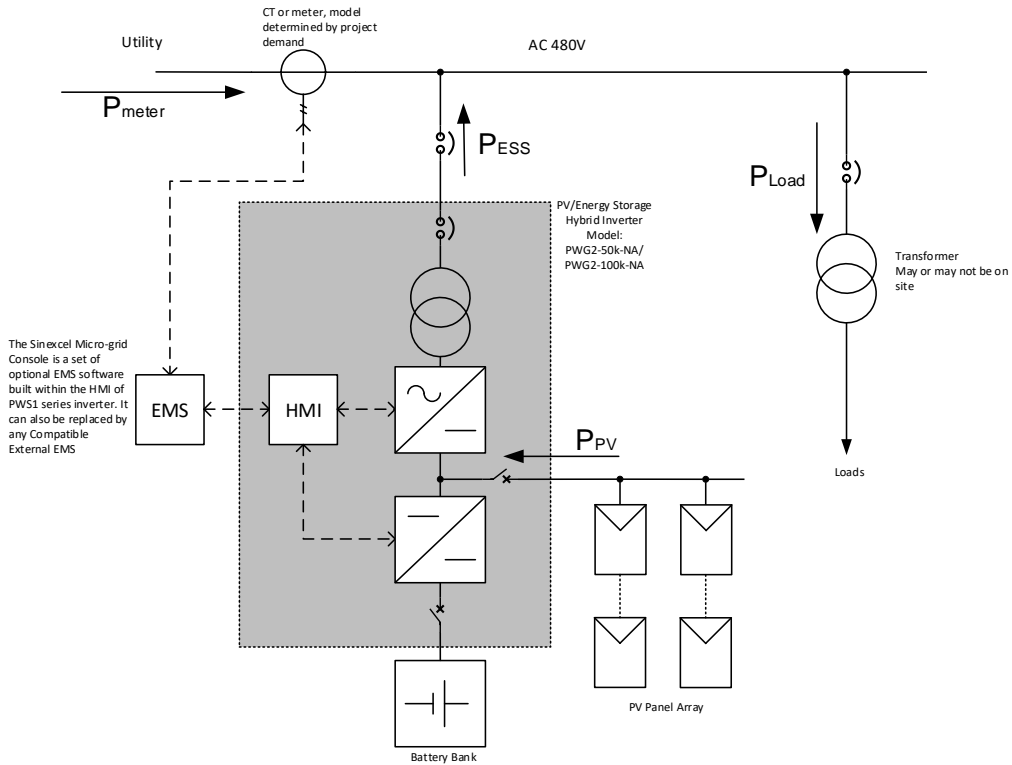


Micro-Grid

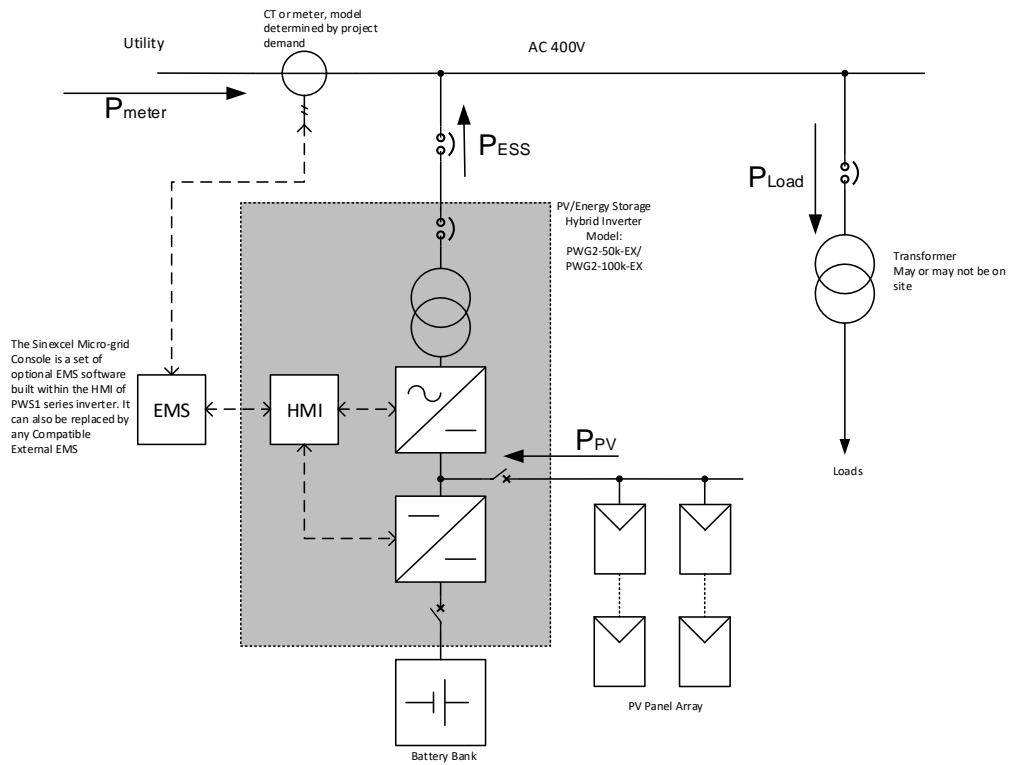


Backup power

Connection patterns



480V distribution system connection



400V distribution system connection