

Features

- Modular design and wide power range in single cabinet
- Bi-directional Power Conversion System
- Built-in transformer for direct grid connection
- Grid-support functions



PWS1-50/100/150-EX



PWS1-250K-EX

Specification

Model PWS1-50K-EX PWS1-100K-EX PWS1-150K-EX PWS1-250K-EX

Utility-interactive Mode

Battery voltage range	500~850V			
DC Max Current	110A	220A	330A	550A
AC voltage	400V(340V~460V)			
AC current	72A	144A	216A	360A
Nominal power	50kW	100kW	150kW	250kW
AC frequency	50/60Hz(±2.5Hz)			
Output THDi	≤3%	≤3%	≤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	500~850V			
DC Max Current	110A	220A	330A	550A
AC output voltage	400V(±10% configurable)			
AC output current	72A(Max 79A)	144A(Max 159A)	216A(Max 238A)	360A(Max 397A)
Nominal AC output power	50kW	100kW	150kW	250kW
AC Max Power	55kW	110kW	165kW	275kW
Output THDu	≤2%	≤2%	≤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 with replaceable fan module			
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		1200*2160*800mm	
	31.5*85*31.5 inches		47.2*85*31.5 inches	
Weight	465kg	680kg	910kg	1280kg
Installation	Vertical installation			

Other

Peak efficiency	95.50%	95.80%	96.10%	96.10%
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	Grid-tied:3-Phase+PE / 3-Phase+N+PE Off-grid:3-Phase+N+PE			
Display	Touch Screen			
Communication	RS485,CAN,Ethernet			

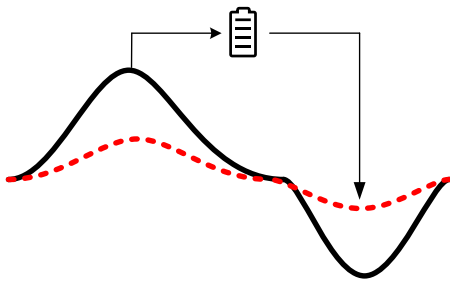
Isolation

Built-in Transformer

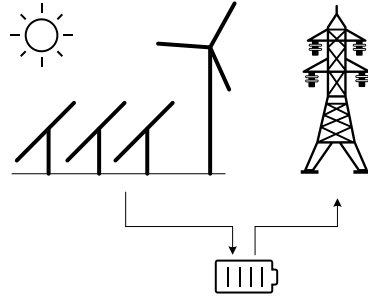
Certification and conformity

IEC62477, IEC61000

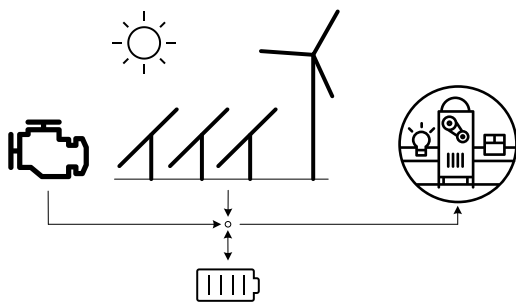
Applications



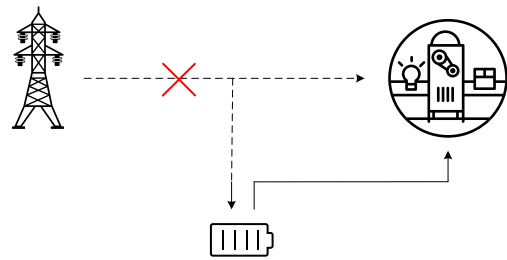
Demand Charge Management



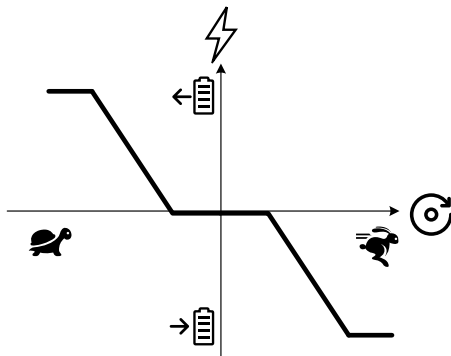
Customer Self Supply



Micro-Grid

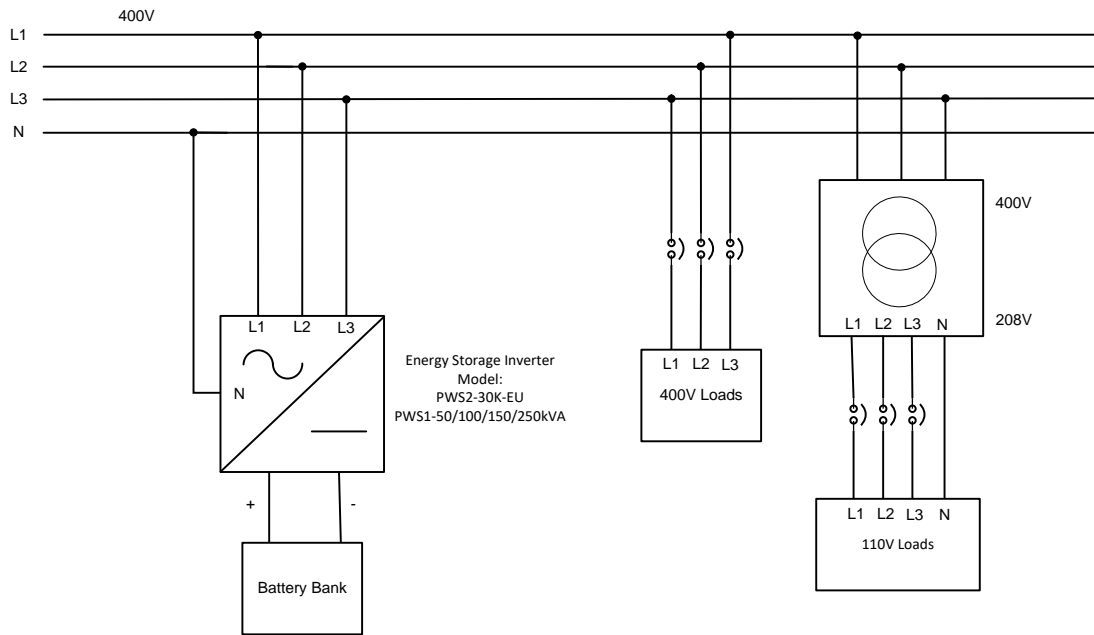


Backup power



Frequency regulation

Connection patterns



400V distribution system connection