

TECHNO SUN

Hybrid Inverter

PWS1-500KTL-ES

SERIE PWS1 | Three-phase without transformer

- 👍 **Modular** design and **wide power range** in single cabinet
- 👍 **Bi-directional** Power **Conversion** System
- 👍 **Grid-support** functions
- 👍 **Multiple DC battery strings**, different battery mixing application
- 👍 **Flexible derating** available
- 👍 **Compatible with**  **PYLONTECH**



SPECIFICATION

Utility-interactive Mode	
Battery voltage range	600 ~ 900V
DC max current	873A
Quantity of battery strings	1/4/8
AC voltage	380V
AC current	760A
Nominal power	500kW
AC frequency	50/60Hz (±2,5Hz)
THDi	≤3%
AC PF	Listed: 0.8~1 leading or lagging (Controllable) Actual: 0.1~1 leading or lagging (Controllable)

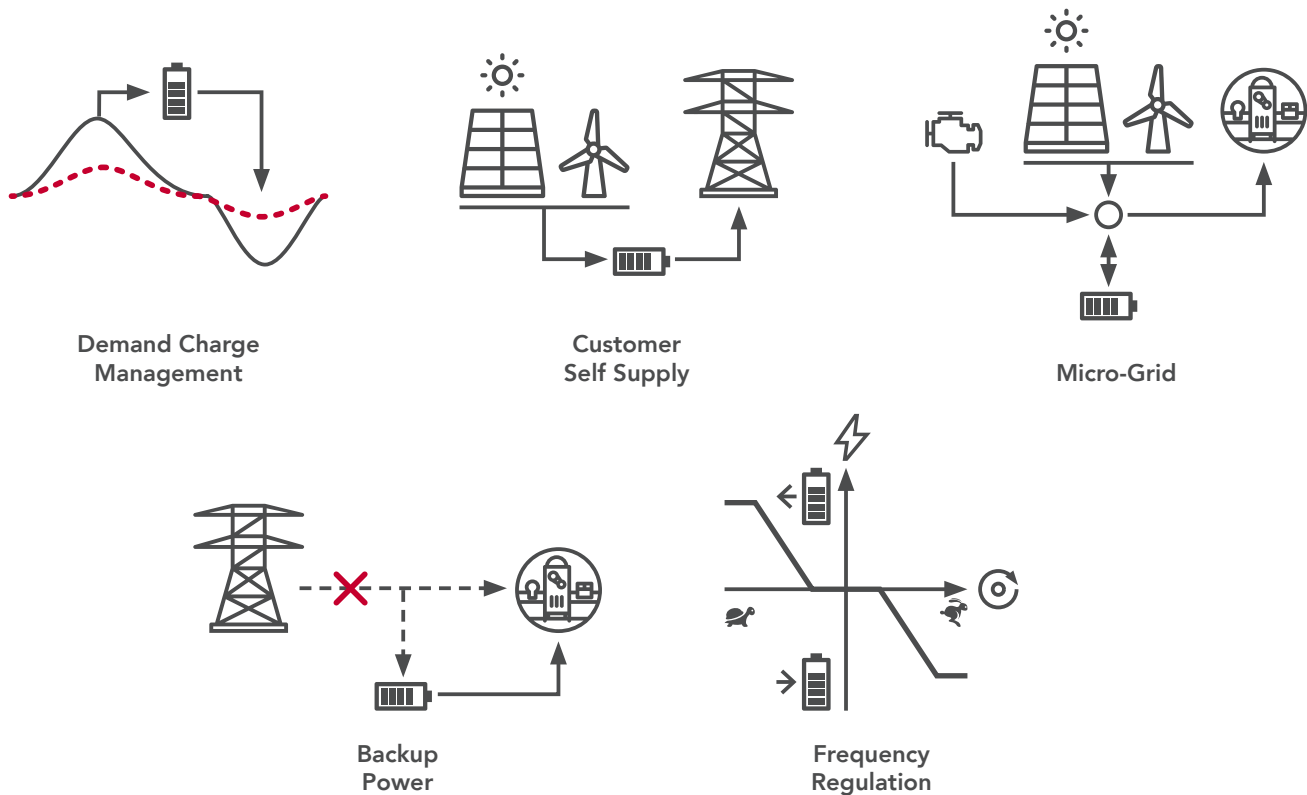
Stand-alone Mode	
Battery voltage range	600 ~ 900V
DC max current	873V
Quantity of battery strings	1/4/8
AC output voltage	380V(±10% configurable)
AC output current	760A (short term overload 836A max)
Nominal AC output power	500kW
AC max power	550kW
Output THDu	≤2% (Linear load)
AC frequency	50/60Hz
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/10000pies (> 2000m/6500feet derating)
Operating ambient temperature	-20°C a 50°C (De-rating over 45°C)
Humidity	0~95% (No condensing)
Size (W*H*D)	1100×2160×800mm
Weight	600kg
Installation	Floor standing

Others	
Peak efficiency	98,20%
CEC efficiency	-
Protection	OTP, AC OVP/UVF, OFP/UFV, 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+PE
Display	Touch Screen
Communication	RS485,CAN,Ethernet
Isolation	Non-isolation
Certification	CE LVD IEC 62477, CE EMC IEC 61000, G59

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APPLICATIONS



CONNECTION PATTERNS

*External transformer may be required

