

PWS1-500KTL

Sinexcel



Charger Mode

| | |
|------------------------|-----------------------|
| AC input voltage | 400V(360V~440V) |
| AC input current | 720A(850A max) |
| AC input power | 500kW(550kW max) |
| AC frequency | 50/60Hz(±2.5Hz) |
| Battery charge voltage | 750Vdc(630Vdc-900Vdc) |
| Battery charge current | 667A(873A max) |
| Battery strings | 1/4/8 |

AC Utility-interactive Mode

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|---------------------------|--|
| Battery discharge voltage | 750Vdc(630Vdc-900Vdc) |
| Battery discharge current | 667A(873A max) |
| AC output voltage | 400V(360V~440V) |
| AC output current | 720A |
| AC output power | 500kW |
| AC frequency | 50/60Hz(±2.5Hz) |
| AC output PF | 0.8 leading to 0.8 lagging(Controllable) |

AC Stand-alone Mode

| | |
|----------------------------|--|
| Battery discharge voltage | 750Vdc(630Vdc-900Vdc) |
| Battery discharge current | 667A(873A max) |
| AC output voltage | 400V(360V~440V configurable) |
| AC output current | 720A(850A max) |
| AC output power | 500kW(550kW max) |
| AC frequency | 50/60Hz |
| AC output PF | 0.8 leading to 0.8 lagging(Load-depend) |
| Output overload capability | 105%~115% 10min; 115%~125% 1min; 125%~150% 200ms |

SYSTEM

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|-----------------|--|
| Peak efficiency | 98.20% |
| Protection | OTP, AC OVP/UV, OFP/UFP, EPO, AC Phase Reverse, Fan/Relay Failure, OLP, DC GFDI, Anti-islanding (on/off) |

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|--------------------------------|--|
| Configurable protection limits | Upper/Lower AC Voltage/Frequency limit, Battery EOD voltage. |
| Installation | Floor-standing |
| AC connection | 3P+PE |
| Isolation | Non-isolation |
| Cooling | Forced air cooling |
| Noise | <70dB |
| Enclosure | IP20/NEMA1 |
| Max elevation | 3000m/10000feet (> 2000m/6500feet derating) |
| Operating temp. | -20°C to+50°C (>45°C power derating) |
| Humidity | 0~95%(No condensing) |
| Size (W*H*D) | 1100*2160*800(mm) / 43.3*85*31.5 (Inches) |
| Weight | 600kg/1320Lbs |

COMMUNICATION

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|--------------|-----------------------|
| Display | Touch Screen |
| EMS protocol | ModBus TCP/IP , MESA |
| Socket | CAN, Ethernet, RS485 |
| BMS protocol | CAN, ModBus RTU, MESA |

STANDARD & CERTIFICATES

| | |
|--------|----------|
| Safety | IEC62476 |
| EMC | IEC61000 |

GRID SUPPORT FUNCTIONS

| | |
|------------|-----|
| H/LVRT | Yes |
| H/LFRT | Yes |
| Ramp rates | Yes |
| Fixed PF | Yes |
| Volt/Watt | Yes |
| Volt/Var | Yes |
| Freq/Watt | Yes |