



Energy Grid Tie System Application Form

Parker EGT Division

Issued by: PCS

Eff. Date: 2-11-2014

Revision: C

Date

Company Data

| | |
|-----------------|--|
| Company Name | |
| Address | |
| | |
| | |
| Primary Contact | |
| Title | |
| Telephone | |
| Mobile | |
| Fax | |
| E-Mail | |
| Website | |

Project Data

| | |
|---|--|
| Project Name/Number | |
| Type of System | <input type="checkbox"/> BESS <input type="checkbox"/> Solar <input type="checkbox"/> Wind <input type="checkbox"/> Flywheel <input type="checkbox"/> Wave/Tidal/Hydro <input type="checkbox"/> Direct Drive PMAC Generator <input type="checkbox"/> Other: <i>Please describe.</i> |
| | |
| | |
| Application | <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Utility <input type="checkbox"/> Military |
| | <input type="checkbox"/> Spinning Reserve <input type="checkbox"/> Frequency Regulation <input type="checkbox"/> Peak Shaving <input type="checkbox"/> UPS <input type="checkbox"/> Black Start <input type="checkbox"/> Load Shifting <input type="checkbox"/> Renewables Integration <input type="checkbox"/> Capacity Firming <input type="checkbox"/> T&D Upgrade Deferral <input type="checkbox"/> Microgrid <input type="checkbox"/> Other: <i>Please describe.</i> |
| | |
| | |
| System Configuration | <input type="checkbox"/> Inverter Only <input type="checkbox"/> ESS (Battery System Only) <input type="checkbox"/> ESS (Battery System) + PCS (Inverter) |
| Grid Connection | <input type="checkbox"/> Grid Connected (On Grid) <input type="checkbox"/> Stand-Alone Type (Off Grid) |
| Nominal Voltage (Vac) | |
| Type of Feed-In | <input type="checkbox"/> Three Phase Grounded <input type="checkbox"/> Three Phase Un-grounded |
| Frequency (Hz) | |
| Number of Working Hours per day/week/year | |



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Battery Electrical Data

| | |
|--|--|
| Voltage Range [Min–Max] (V) | |
| Nominal Power (MW) | |
| Peak Power (MWp) | |
| Nominal Energy (MWh) | |
| Typical Cycle (charge & discharge with time) | |
| Storage Conditions/Self-discharge | |
| Standards (UL, IEC, EN, CE, etc.) | |

Battery System Data

| | |
|-----------------------------------|---------------------|
| Minimum Bank Voltage (VDC) | |
| Maximum Bank Voltage (VDC) | |
| Rated Energy (kWh/MWh) | |
| Expected Service Life | |
| Standards (UL, IEC, EN, CE, etc.) | |
| Discharge Rate | |
| Continuous Power (kW/MW) | Duration (Sec, Min) |
| Peak Discharge Power (kW/MW) | Duration (Sec, Min) |
| Charge Rate | |
| Continuous Power (kW/MW) | Duration (Sec, Min) |
| Peak Discharge Power (kW/MW) | Duration (Sec, Min) |

Battery Mechanical Data

| | |
|---|--|
| Maximum Length, Width, Height (LxWxH) (in/m) | |
| Environment | <input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor |
| Maximum Weight (lbs./Kg) | |
| Cooling System | <input type="checkbox"/> Air <input type="checkbox"/> Liquid |
| Connection and Connectors (power and communications) | |
| Cable and Terminals | |
| Standards (UL, IEC, EN, CE, etc.) | |

Battery Temperature and Environment Data

| | |
|--|--|
| Storage Conditions (temperature range, humidity, etc.) | |
| Insulation Requirements | |
| Chemical Constraints (Salt, moistures, Liquids, etc.) | |
| Electrical and Mechanical Protection (IP Code, etc.) | |
| Expected Installation Environment; Example - Above Ground, Underground, Weatherproofing | |
| Standards (UL, IEC, EN, CE, etc.) | |



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PCS (Inverter) Data

| | |
|-----------------------------------|--|
| Nominal Power (kW/MW) | |
| Peak Power (kWp/MWp) | |
| Nominal AC Voltage Range (Volts) | |
| Frequency (Hz) | |
| Efficiency (%) | |
| Standards (UL, IEC, EN, CE, etc.) | |

Control System Data

| | |
|-----------------------------------|--|
| Low Voltage Ride Through (LVRT) | <input type="checkbox"/> Required |
| Voltage Regulation | <input type="checkbox"/> Required |
| Reactive Power | <input type="checkbox"/> Required |
| Power Factor Correction | <input type="checkbox"/> Required |
| Frequency Regulation | <input type="checkbox"/> Required |
| Ramp Rate Control | <input type="checkbox"/> Required |
| System Monitoring | <input type="checkbox"/> Required |
| SDC or EMS Requirement | <input type="checkbox"/> Required - <i>Parker will be pleased to provide this as an option if needed. System overview is required. Please call to discuss available options.</i> |
| Standards (UL, IEC, EN, CE, etc.) | |

Inverter Mechanical Data

| | |
|--|--|
| Maximum Length, Width, Height (LxWxH) in/mm | |
| Maximum Weight (lbs./Kg) | |
| Cooling System | <input type="checkbox"/> Air <input type="checkbox"/> Liquid |
| Connection and Connectors (power and communications) | |
| Cable and Terminals | <input type="checkbox"/> Top Power Feed <input type="checkbox"/> Bottom Power Feed |
| | <input type="checkbox"/> Other <i>Please describe:</i> |
| | |
| Standards (UL, IEC, EN, CE, etc.) | |



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Inverter Temperature and Environment Data

| | |
|---|--|
| Storage Temperature | |
| Operational Temperature | |
| Insulation Requirements | |
| Chemical Constraints (Salt, Salt Fog, Moisture, Liquids, etc.) | |
| Electrical and Mechanical Protection (IP or NEMA Code, etc.) | |
| Expected Installation Environment Such as Indoor, Outdoor, Underground, Weatherproofing, is a Fork Lift or Crane Required? | |
| Norms/Standards | |

Other Data

| | |
|---|--|
| Ancillary System Requirements (HVAC, Fire Suppression, Air-conditioning) | |
| | |
| | |
| | |
| | |
| Standard Warranty/Extended Warranty Duration. | |
| | |
| | |