Request for tender for grid   
connection of power-generating facilities

We request a tender for grid connection of a power-generating facility as specified:

Category:  Wind  Sola  Hydro  Other:

Location:       (Map with SWEREF99 coordinates (RT90-format) shall be attached)

Manufacturer:       Type:

Number of units:

* Total subscribed power):       kW
* Power-generating facility reference power *(Pref )*:       kW/unit
* Maximum power production Pmax*(10-minute average value)*:       kW/unit
* Maximum power production (0.2-second average value):       kW/unit
* Use of reactive power at rated voltage::
  + Idling:       kW/unit
  + At reference power with compensation:       kW/unit
  + At reference power without compensation:       kW/unit
* Maximum use of reactive power at measurement   
  point during operation (10-minute average value):       kW/unit
* Generating facility rated voltage:       V
* Generating facility rated power:       MVA

Documentation and information that shall be appended (mandatory)

* Voltage level for specified test values
* ame of the owner of the installation
* Measure report (type test) showing the phase- or main-voltages before and during at least 3 following disconnecting cycles
* List of safety functions with function levels and function times
* For harmonic orders 2-50, output power giving maximal harmonic current and the amplitude of the maximal harmonic current (to be specified in the table on next page)
* Maximum total harmonic current
* Supplementary information for compensation of reactive power for the whole installation
* Dynamic data1

1 If applicable

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Short circuit angle (Ψk) | 30˚ | 50˚ | 70˚ | 85˚ |
| Voltage change factor (kn) ≤ |  |  |  |  |
| Flicker step factor (kf) ≤ |  |  |  |  |

Specification of harmonic currents

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Order | Output power  kW | Harmonic current  % of In | Order | Output power  kW | Harmonic current  % of In |
| 2 |  |  | 3 |  |  |
| 4 |  |  | 5 |  |  |
| 6 |  |  | 7 |  |  |
| 8 |  |  | 9 |  |  |
| 10 |  |  | 11 |  |  |
| 12 |  |  | 13 |  |  |
| 14 |  |  | 15 |  |  |
| 16 |  |  | 17 |  |  |
| 18 |  |  | 19 |  |  |
| 20 |  |  | 21 |  |  |
| 22 |  |  | 23 |  |  |
| 24 |  |  | 25 |  |  |
| 26 |  |  | 27 |  |  |
| 28 |  |  | 29 |  |  |
| 30 |  |  | 31 |  |  |
| 32 |  |  | 33 |  |  |
| 34 |  |  | 35 |  |  |
| 36 |  |  | 37 |  |  |
| 38 |  |  | 39 |  |  |
| 40 |  |  | 41 |  |  |
| 42 |  |  | 43 |  |  |
| 44 |  |  | 45 |  |  |
| 46 |  |  | 47 |  |  |
| 48 |  |  | 49 |  |  |
| 50 |  |  |  |  |  |

|  |  |
| --- | --- |
| Maximum rms total harmonic current expressed as % of In |  |
| Output power (kW) at maximum rms total harmonic current |  |

|  |  |
| --- | --- |
| Maximum rms total discrete inter-harmonic current expressed as % of In |  |
| Output power (kW) at maximum rms discrete inter-harmonic current |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Date:** Date | | **Signed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | |
|  | **Name in block letters**: | | |
|  | | | *Supplier of power-generation facility* |

|  |  |  |  |
| --- | --- | --- | --- |
| **Date:** Date | | **Signed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | |
|  | **Name in block letters**: | | |
|  | | | *Owner of power-generation facility* |