Commodity Description

종목 번호 Item No.	관세분류 번호 HSK No.	정부물품분류번호(8자리) Korean Government Commodity Classification Code(eight-digit)	품 명 Description	단 위 Unit	수 량 Q'ty
1	9030.89.0000	41113677	300 kV frequency variable AC dielectric test system	SET	1

Ⅰ. Feature

A reference standard system for breakdown voltage testing of high-voltage dividers, high-voltage cables, and voltage transformers, supporting calibration and performance verification activities at public research institutes (e.g., Korea Electrotechnology Research Institute and Korea Testing & Research Institute), KEPCO Research Institute, and heavy electrical equipment manufacturers.

Ⅱ. System Configurations

300 kV, Variable Frequency High Voltage Source and Measurement System, 1 set

Ⅲ. Specificpation

1) Active AC High Voltage Divider:
   - Division Accuracy: < 20 Parts in 10^6
   - Frequency Rang of Measured values: 40 Hz to 400 Hz

2) SF_6 filled Standard High Voltage Capcitor:
   - Rated voltage: 300 kV
   - Capacitance: 50 pF
   - Tan δ (delta): less than 1×10^{-5}

3) Variable Frequency Inverter:
   - Rated Capacity: 90 kVA
   - Output: Single-phase, 0 V to 600 V, 150 A
   - Output Voltage Step: 0.1 V
   - Output Voltage Stability: ≤ ±0.5%FS
   - Output Frequency: Continuous 45 Hz to 65 Hz
   - Frequency Step: 0.1 Hz
   - Frequency Stability: ≤ ±0.02% FS
   - Waveform: Sine Wave

- Harmonic Content: ≤ 1.5% (Linear Load, FS)
- Real-time monitoring of test parameters

4) 300 kV High Voltage Transformer:
- Rated Capacity: 90 kVA
- Output: 300 kV, 0.35 A
- Output Frequency: 45 Hz to 65 Hz
- PD level: < 2 pC at 100% rated voltage
- Working time: 100% UN, IN for 60 minute, 70% UN, IN for continuous operation

5) Precision Peak voltmeter:
- Input voltage (peak value): 0 V to ±1000 V
- Frequency range: DC and 10 Hz to 500 Hz
- Input impedance: R ≥ 10 MΩ, C ≤ 50 pF

6) Protection
- Over voltage Protection: Protect the inverter and test circuit aginst excessive output voltage
- Over current Protection: Limits abnormal output current conditions
- Over load Protection: Protects the power stage under overload condition
- Short-Circuit Protection: Provides protection against output short circuit
- Flashover Protection: Detects abnormal test-circuit flashover condition

Ⅳ. Remarks

1) Warranty: one year
2) Guarantee shall continue until twelve months after the date when the commodity
3) Installation and training at customers site
4) Installation and operation will be performed by contract agent free of charge