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**BATTERY TESTER &
BATTERY DISCHARGE RESISTOR
DATA SHEET**

Rev	Revision Date	Description	Compiled	Checked	Approved

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<u>DESCRIPTION</u>	<u>REQUIRED SPECIFICATION</u>	<u>BIDDER SPECIFICATION</u>
1. GENERAL		
1-1. QUANTITY		
1-2. CODES & STANDARDS		IEEE-32:1972, IEC 60439-1
2. SERVICE CONDITIONS		
2-1. LOCATION	<input type="checkbox"/> INDOOR <input type="checkbox"/> OUTDOOR	<input type="checkbox"/> INDOOR <input type="checkbox"/> OUTDOOR
2-2. AMBIENT TEMPERATURE	MAX: °C MIN: °C	MAX: °C MIN: °C
2-3. MAX RELATIVE HUMIDITY	%	%
2-4. ALTITUDE (SEA LEVEL)	m	m
2-5. SEISMIC WITHSTAND FACTOR (Ver/Hor)	g	g
3. SYSTEM & RATING		
3-1. RATING OF RESISTOR		
3-1-1. NUMBER OF PHASES		
3-1-2. RATED ACTIVE POWER	kW	kW
3-1-3. RATED VOLTAGE	V	V
3-1-4. CURRENT TYPE (AC/DC)	<input type="checkbox"/> DC <input type="checkbox"/> AC	<input type="checkbox"/> DC <input type="checkbox"/> AC
3-1-5. MAX SYSTEM VOLTAGE	V	V
3-1-6. PHASE TO NEUTRAL VOLTAGE	V	V
3-1-7. RATED CAPACITY (C5)	A.h	A.h
3-1-8. DIELECTRIC TEST VOLTAGE	kV	kV
3-1-9. DISCHARGING CURRENT	A	A
3-1-10. TYPE OF DISCHARGING	<input type="checkbox"/> CONST. CURRENT <input type="checkbox"/> CONST. POWER <input type="checkbox"/> CONST. RESISTANCE	<input type="checkbox"/> CONST. CURRENT <input type="checkbox"/> CONST. POWER <input type="checkbox"/> CONST. RESISTANCE
3-1-11. TOLERANCE OF CONST. VALUE	%	%
3-1-12. DEPTH OF DISCHARGE	V	V
3-1-13. OHMIC VAL. @ 20°C / TOL.	Ω/Phase ± %	Ω/Phase ± %
3-1-14. DUTY CYCLE	s	s
3-1-15. MAX. HOT SPOT TEMP. RISE	°C	°C
3-1-16. OHMIC VAL. at MAX. TEMP.	Ω/Phase	Ω/Phase
3-1-17. OHMIC VAL. at MIN. TEMP.	Ω/Phase	Ω/Phase
3-1-18. OHMIC VAL. at MAX. TEMP. RISE	Ω/Phase	Ω/Phase
3-1-19. INDUCTIVE VAL. OF EACH PHASE	mH	mH
3-1-20. NUMBER OF STEPS		
3-1-21. DISCHARGING TIME	h	h
4. CONSTRUCTION		
4-1. RESISTOR ELEMENTS		
4-1-1. TYPE OF RESISTOR		
4-1-2. MATERIAL OF RESISTOR		
4-1-3. RESISTOR SCREW & NUT MATERIAL	<input type="checkbox"/> GALVANIZED <input type="checkbox"/> STAINLESS STEEL	<input type="checkbox"/> GALVANIZED <input type="checkbox"/> STAINLESS STEEL
4-1-4. CONNECTIONS MATERIAL	<input type="checkbox"/> STAINLESS STEEL <input type="checkbox"/> ALUMINUM <input type="checkbox"/> BRASS <input type="checkbox"/> COPPER	<input type="checkbox"/> STAINLESS STEEL <input type="checkbox"/> ALUMINUM <input type="checkbox"/> BRASS <input type="checkbox"/> COPPER
4-2. ENTRY TYPE		
4-2-1. ENTRY CONNECTION	<input type="checkbox"/> BUSHING <input type="checkbox"/> INDUSTRIAL SOCKET <input type="checkbox"/> BUSBAR <input type="checkbox"/> TERMINAL	<input type="checkbox"/> BUSHING <input type="checkbox"/> INDUSTRIAL SOCKET <input type="checkbox"/> BUSBAR <input type="checkbox"/> TERMINAL

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<u>DESCRIPTION</u>	<u>REQUIRED SPECIFICATION</u>	<u>BIDDER SPECIFICATION</u>
4-2-2. ENTRY POSITION	<input type="checkbox"/> TOP <input type="checkbox"/> SIDE <input type="checkbox"/> BOTTOM	<input type="checkbox"/> TOP <input type="checkbox"/> SIDE <input type="checkbox"/> BOTTOM
4-2-3. ENTRY PROTECTION	<input type="checkbox"/> CABLE BOX <input type="checkbox"/> COVERED <input type="checkbox"/> UNCOVERED	<input type="checkbox"/> CABLE BOX <input type="checkbox"/> COVERED <input type="checkbox"/> UNCOVERED
4-3. ENCLOSURE	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
4-3-1. INDEX OF PROTECTION SHIPING & STORAGE (IEC 60529)	IP	IP
4-3-2. INDEX OF PROTECTION OPERATION (IEC 60529)	IP	IP
4-3-3. MOUNTING	<input type="checkbox"/> FIX ON WALL <input type="checkbox"/> FIX ON FLOOR <input type="checkbox"/> LOCKABLE CASTER WHEEL <input type="checkbox"/> TRAILER	<input type="checkbox"/> FIX ON WALL <input type="checkbox"/> FIX ON FLOOR <input type="checkbox"/> LOCKABLE CASTER WHEEL <input type="checkbox"/> TRAILER
4-3-4. ENCLOSURE MATERIAL	<input type="checkbox"/> BLACK IRON <input type="checkbox"/> PRE GALVANIZED STEEL <input type="checkbox"/> HOT DIP GALVANIZED <input type="checkbox"/> STAINLESS STEEL	<input type="checkbox"/> BLACK IRON <input type="checkbox"/> PRE GALVANIZED STEEL <input type="checkbox"/> HOT DIP GALVANIZED <input type="checkbox"/> STAINLESS STEEL
4-3-5. ENCLOSURE SCREW & NUT MATERIAL	<input type="checkbox"/> GALVANIZED <input type="checkbox"/> STAINLESS STEEL	<input type="checkbox"/> GALVANIZED <input type="checkbox"/> STAINLESS STEEL
4-3-6. ENCLOSURE COLOR (if applicable)	RAL	RAL
4-3-7. LIFTING LUGS	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
4-3-8. FOUNDATION BOLTS	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
4-3-9. NAME PLATE	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
4-3-10. WARNING PLATES	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
5. COOLING SYSTEM OF RESISTOR		
5-1. COOLANT FLUID	<input checked="" type="checkbox"/> AIR <input type="checkbox"/> OIL	<input type="checkbox"/> AIR <input type="checkbox"/> OIL
5-2. COOLING METHOD	<input type="checkbox"/> NATURAL <input type="checkbox"/> FORCED	<input type="checkbox"/> NATURAL <input type="checkbox"/> FORCED
5-3. COOLING FLOW DIRECTION (if AF)	<input type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL	<input type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL
5-4. VOLUMETRIC AIRFLOW RATE (if AF)	m ³ /h	m ³ /h
5-5. ENTRY SUPPLY	<input type="checkbox"/> INDUSTRIAL SOCKET <input type="checkbox"/> TERMINAL <input type="checkbox"/> BUSBAR/BUSHING	<input type="checkbox"/> INDUSTRIAL SOCKET <input type="checkbox"/> TERMINAL <input type="checkbox"/> BUSBAR/BUSHING
5-6. ENTRY CONNECTION (if separate)	<input type="checkbox"/> INDUSTRIAL SOCKET <input type="checkbox"/> TERMINAL <input type="checkbox"/> BUSBAR/BUSHING	<input type="checkbox"/> INDUSTRIAL SOCKET <input type="checkbox"/> TERMINAL <input type="checkbox"/> BUSBAR/BUSHING
6. DIMENSIONS & WEIGHT OF RESISTOR UNIT		
6-1. DIMENSIONS (W×L×H)	mm ³	mm ³
6-2. TOTAL WEIGHT	kg	kg
7. SPARE PARTS		
7-1. FOR START UP & COMMISSIONING	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
7-2. FOR 2 YEAR OPERATION & MAINTENANCE	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED	<input type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
8. PACKAGING		
8-1. PACKAGING TYPE (According to Packing Procedure)	<input type="checkbox"/> NOT REQUIRED <input type="checkbox"/> SOFT COVER <input type="checkbox"/> SOLID STRUCTURE	<input type="checkbox"/> NOT REQUIRED <input type="checkbox"/> SOFT COVER <input type="checkbox"/> SOLID STRUCTURE