

# DP-50 Differential Probe

**Powertek**

©High voltage differential probe DP-50 ( 6.5KVp-p / 50MHz )



- 4 RANGE ATTENUATOR
- 2 POWER SOURCE
- 6500V HIGH VOLTAGE INPUT
- <6.5V LOW BATT. INDICATE
- <5.5V AUTO POWER OFF
- SEPARATING DESIGN, CONVENIENT, DURABLE
- MEET IEC1010, UL3111, TUV GS, CAT III 6500V

**Differential Voltage DC + pk AC:** 6500V  
**Bandwidth ( 50  $\Omega$  load -3dB ):** 50MHz( x 100 25MHz)  
**Common Mode Voltage DC + pk AC:** 6500V  
**Common Mode Voltage RMS CAT II:** 6500V  
**Common Mode Voltage RMS CAT III:** 6500V  
**Attenuation ( Switchable ):** X 100, X 200, X 500, X 1000  
**Input R ( Each Input ):** 27M $\Omega$  $\pm$ 1%  
**Input C ( Each Input ):** 2.5 PF  $\pm$  2% 2  
**Maximum Operation Voltage ( DC + pk AC ):**  
 $\leq$   $\pm$  650V at X 100  
 $\leq$   $\pm$  1300V at X 200  
 $\leq$   $\pm$  3250V at X 500  
 $\leq$   $\pm$  6500V at X 1000  
**Common Mode Rejection Ration ) C M R R )**  
**60Hz :** > 10,000 : 1  
**100Hz :** > 1,000 : 1  
**1MHz :** > 300 : 1  
**Noise ( Info 50 $\Omega$  load ):**  $\leq$  2 m Vrms  
**Input Impedance ( between Input ):** 54 M $\Omega$   
// 1.25 PF >  
**Accuracy ( at 20 - 30 C 70% RH after 20 minutes ):**  $\leq$   $\pm$  2 %  
**Maximum Output Voltage:**  $\leq$   $\pm$  6.5 V  
**POWER SOURCE:** 1. 9V battery 2. External 6V ~ 9 VDC



## WARNING

1. Do not use DP-50/100 above 6500V ( DC + peak AC ) between ground and the input or 6500V ( DC + peak AC ) between the input lead.
2. Do not operate DP-50/100 in wet or damp condition.
3. Do not operate DP-50/100 in an explosive atmosphere
4. Do not immerse DP-50/100 in liquids.
5. Do not operate DP-50/100 without covers.
6. Please change the battery when the " LOW BATT" LED is lighted. At this time DP-5/100 can operate but not guaranteed the accuracy.

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