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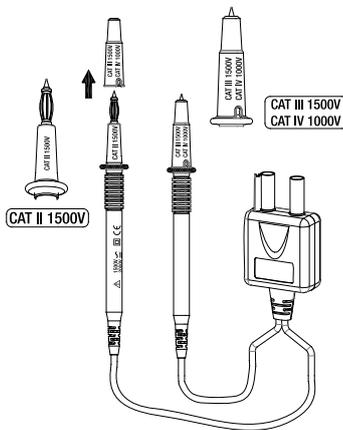
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1 TA85 Product Information

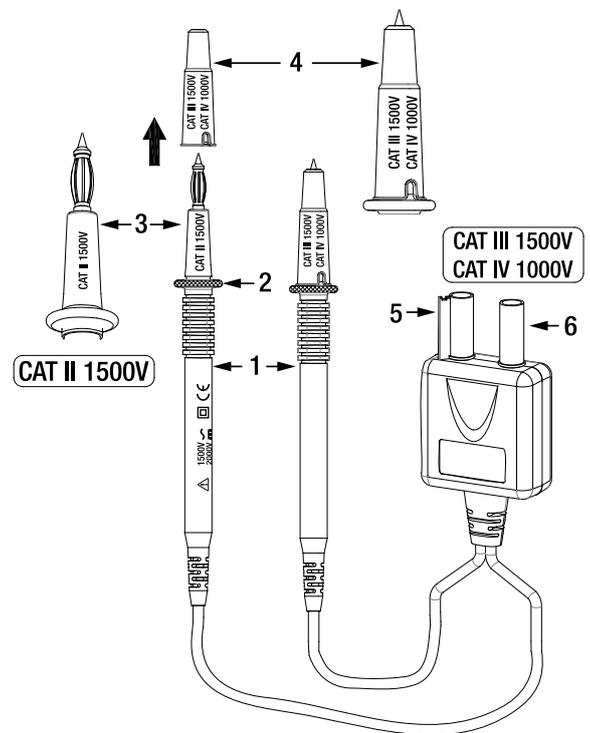
1.1 INTRODUCTION

This product is designed for use with the FLIR CM276 clamp meter, with the purpose of measuring the power output of solar panels (photovoltaic cells, or PV). This product is rated up to 1500 V AC and 1500 V DC can only be used in environments where there is not a direct connection to Mains.

For CAT III and CAT IV environments, use the test leads with the probe tip guard cap firmly attached. Without the probe tip guard cap in place, the test leads can be used in CAT II environments ONLY.

1.2 PRODUCT DESCRIPTION

1. Test lead hand grips.
2. Finger guards.
3. Test leads without caps.
4. Protective caps.
5. Negative plug connects to COM jack on meter.
6. Positive plug connects positive jack on meter.



1.3 SAFETY

CAUTION

Ensure that the TA85 test leads are firmly connected to the CM276 input terminals and that the CM276 function switch is set to the PV position. See the CM276 User Manual for full details.

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 WARNING
<p>When using the test leads, keep your fingers behind the finger guards.</p> <p>Use caution with voltages above 30 V AC RMS, 42 V AC Peak, or 60 V DC. These voltages pose a shock hazard.</p> <p>If the test leads are used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.</p> <p>To reduce the risk of fire or electric shock, do not use this product near explosive gases, in areas of high humidity, or when moisture is present.</p> <p>DO NOT USE the test leads if the internal white insulation layer in the wires is exposed.</p> <p>DO NOT USE the test leads above the maximum CAT ratings for voltage and current, these limits are indicated on the products.</p> <p>DO NOT USE the test leads without the probe tip guard cap, when working in CAT III and CAT IV environments.</p> <p>DO NOT USE the test leads to measure signals > 1500 V when connected to the MAINS directly.</p>

1.4 MAINTENANCE

 CAUTION
<p>Do not attempt to repair the test leads, they contain no user-serviceable parts. Repair or servicing should only be performed by qualified personnel. Contact FLIR for assistance.</p>

1.4.1 Cleaning

Wipe the test leads with a damp cloth and mild detergent, if necessary. DO NOT use abrasives or solvents and DO NOT IMMERSE in liquid.

1.5 SPECIFICATIONS

Input impedance	10 MΩ
Over-voltage category	CAT II 1500 V CAT III 1500 V CAT IV 1000 V
Pollution degree	2
Exposed probe tip length	4 to 19 mm (0.16 to 0.75 in.)
Environmental ratings	-10 to 45°C (-4° to 113°F), 80% RH
Altitude	2000 m (6562 ft.)
Safety standards	EN 61010-031
CAT application fields	
CAT II	Circuits directly connected to low-voltage installations.
CAT III	Building installation, solar PV application.
CAT IV	Source of a low-voltage installation.

1.6 CUSTOMER SUPPORT

Customer Support Local Telephone List:

<https://support.flir.com/contact>

Returns (RMA):

<https://customer.flir.com/Home>

