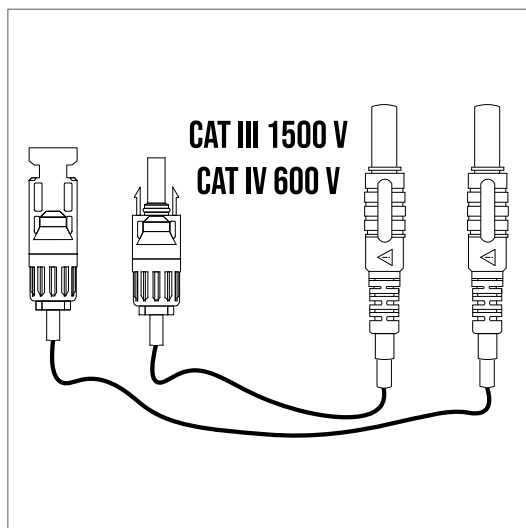




USER GUIDE

TA89 MC4 PV Plugs



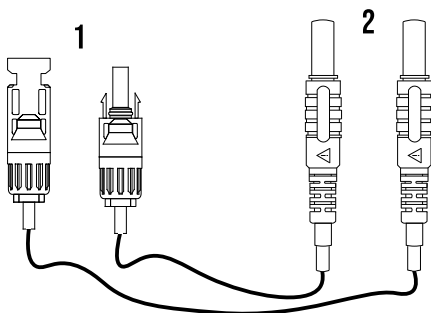
TA89 Product Information

INTRODUCTION

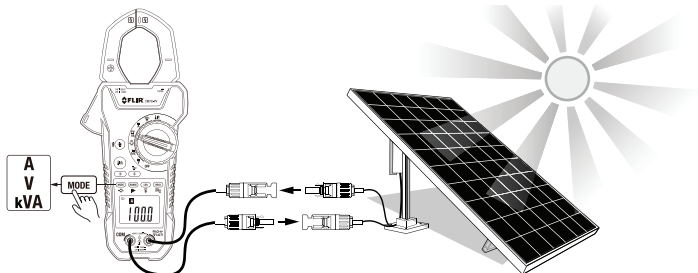
This product is designed for use with the FLIR CM78-PV clamp meter, with the purpose of measuring the power output of solar panels (photovoltaic cells, or PV). This product is rated up to CAT III 1500 V DC and CAT IV 600 V DC and can only be used in environments where there is not a direct connection to Mains.

PRODUCT DESCRIPTION

1. MC4 plugs connect to solar panel.
 2. Test lead probes connect to CM78-PV.
- The tips of probes include protective caps that must be removed before use.



APPLICATION EXAMPLE



SAFETY

	Conforms to UL STD. 61010-031. Certified to CSA STD. C22.2 No. 61010-031.
	Double insulation.



CAUTION

Ensure that the plugs are firmly connected to the CM78-PV input terminals and that the rotary function switch is set to the **PV** position. See the CM78-PV User Manual for full details.



WARNING

Improper use of the meter can cause damage, shock, injury or death. Read and understand this user manual before operating the meter.

Use caution with voltages above 30 V AC RMS, 42 V AC Peak, or 60 V DC. These voltages pose a shock hazard.

If the plugs are used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

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.

DO NOT USE the plugs if the internal insulation layer in the wires is exposed.

DO NOT USE the plugs above the maximum CAT ratings for voltage and current, these limits are indicated on the products.

DO NOT USE the plugs to measure signals > 1500 V.

MAINTENANCE



CAUTION

Do not attempt to repair test leads, probes, or plugs, they contain no user-serviceable parts. Repair or servicing should only be performed by qualified personnel. Contact FLIR for assistance.

Cleaning

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

SPECIFICATIONS

Input impedance	10 M Ω
Over-voltage category	CAT III 1500 V, CAT IV 600 V
Maximum current	20 A
Pollution degree	2
Operating temperature	-10 to 50°C (14° to 122°F)
Storage temperature	-25 to 60°C (-14° to 140°F)
Altitude	2000 m (6562 ft.)
Safety standards	UL, EN, IEC 61010-031
Certifications	ETL, CE
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.

CUSTOMER SUPPORT

Customer Support Local Telephone List:

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

Returns (RMA):

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

WARRANTY

This product is protected by FLIR's Limited Three-Year Warranty. Visit www.flir.com/testwarranty to read the warranty document.

Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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