

## Specifications of TM110/120TF Photovoltaic Modules

### Electrical Characteristics



### Typical Electrical Characteristics THIN FILM SERIES (Tandem)

| Model Number                       | TM110TF   | TM115TF  | TM120TF  |
|------------------------------------|---|----------|----------|
| Rated Maximum Power (Pmax)         | 110W  | 115W     | 120W     |
| Power Tolerance                    | -0 / +5W  | -0 / +5W | -0 / +5W |
| Maximum Power Voltage (Vmp)        | 89,46V  | 92,70V   | 96,00V   |
| Maximum Power Current (Imp)        | 1,23A   | 1,24A    | 1,25A    |
| Open Circuit Voltage (Voc)         | 129,11V   | 132,07V  | 129,80V  |
| Short Circuit Current (Isc)        | 1,52A   | 1,53A    | 1,51A    |
| Maximum System Voltage (VDC)       | 1000V   |          |          |
| Module Efficiency                  | > 9%  | > 9%     | > 9%     |
| Nominal Operating Cell Temperature | 45°C +/- 3°C  |          |          |
| Temp. coefficient                  | -0,25% / 0,07% / -0,30%                                     |          |          |
| Solar Cell Type                    | a-Si / $\mu$ c-Si (Tandem)                                  |          |          |
| Standard Test Condition            | STC: AM=1.5, 1000W/m <sup>2</sup> , Module Temperature 25°C |          |          |
| Operating Temperature              | -40°C ÷ +85°C   |          |          |
| Product Certifications             | IEC 61646, IEC 61730 & CE                                   |          |          |

### Mechanical Characteristics

|                       |                                 |
|-----------------------|---------------------------------|
| Dimensions and Weight | 1100 x 1300 x 6,8 mm – 27,5 kgs |
| Frame                 | No frame                        |

NOTE: modifications to technical data are possible without prior notice. ID 06072010

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