



Tigo Energy

Dual Maximizer - ES (MM-2ES)

Data Sheet

## Optimize the energy harvest of your PV system using the Tigo Energy Maximizer to:

- Accelerate system payback
- Maximize the power output of the array under any condition
- Reconsider previously rejected projects because of unfavorable shade or orientation
- Maintain best-in-class conversion efficiency
- Manage the system with module-level data to minimize operational costs and keep the system at peak performance throughout its lifetime
- Introduce an unprecedented level of safety for new and existing PV solar installations
- Simplify the balance-of-system design, especially for high Voc or thin-film modules



## Dual Maximizer - ES Technical Specifications

	MM-2ES 50	MM-2ES 75
Electrical Ratings at STC*		
Input	Per Input	Per Input
Nominal Input Power	375W	375W
Absolute Maximum Input Voltage (Voc)	52Vdc	75Vdc
MPPT Operating Voltage Range (Vmp)	16-48Vdc	30-65Vdc
Maximum Input Current (Isc)	10A	7.5A
Maximum Continuous Input Current (Imp)	9.5A	6.5A
Output		
Maximum Output Power	700W	700W
Maximum Output Current	9.5A	9.5A
Operating Output Voltage	0-52V	0-75V
Mechanical		
Ambient temperature range	-40°C to +70°C (-40°F to +158°F)	
Storage temperature range	-40°C to +70°C (-40°F to +158°F)	
Cooling method	Natural convection	
Dimensions (with bracket)	142.3 x 29.3 x 1631 mm (5.60" x 1.15" x 64.21")	
Weight	950 gr (2.10 LB)	
Enclosure rating	IP65, NEMA 3R	
Cabling		
Cabling Type	PV1-F, PV Wire	PV1-F, PV Wire
Cable length	ST: 1300 mm (51.18")	ST: 1300 (51.18")
	XL: 2100 mm(82.68")	XL: 2100 mm (82.68")
Connector	MC4 / MC3 / Tyco	MC4 / MC3 / Tyco
UV resistance	500 hr with UV light between 300-400nm@65C 500 hr with	
	UV light	
Maximum string Voltage	600V/1000V dual rated	600V/1000V dual rated
Cable Outer Diameter	6.9 ± 0.2 mm	6.9 ± 0.2 mm
Wire cross section	4.0mm <sup>2</sup> (12AWG)	4.0mm² (12AWG)
Compliance		
Safety	CSA C22.2 No. 107.1-01, UL 1741 2nd Edition (January 28th	
	2010), EN 62109-1: 2010, Protection Class II	
EMC	CE Council Directives 2004/108/EC, VCCI Japan Council /CISPR22	
	FCC Part 15B, Radio Approval	
Environmental	Pollution Degree 3	
Installation	Application Class A, Over voltage (Installation) category III	
Additional	Tested with impulse voltage at 8kV, Flammability Class V-0	

<sup>\*</sup> STC:  $Irr=1,000 \text{ w/m}^2$ , cell temp. = 25°C, AM=1.5



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## **Mechanical Dimensions:**



## **Ordering Information:**



