



## Smartest | Most Reliable | 12 Years Warranty | Automatic Dual Mode QUAD-DM 2000

For India

The QUAD-DM 2000 revolutionizes solar energy solutions with four individual DC input channels, maximizing energy harvest.

It facilitates independent peak power tracking for up to four PV Panels, ensuring optimal performance in grid-tied and Standby mode operation.

### Four PV Panels, One Inverter



The QUAD-DM 2000 microinverter uses patented technologies that eliminate the use of short-life electrolytic capacitors, providing high reliability, and a 25-year Product life. Based on a Per-Watt rating, the QUAD-DM 2000 has the lowest microinverter cost, the highest power output, the highest power density, and the lowest weight in the industry.

### Salient Features

- 01** Maximum energy harvest
- 02** Automatic dual mode operation
- 03** Cloud-based performance monitoring for each panel
- 04** Quick and easy installation
- 05** Safe AC operation with no high-voltage DC
- 06** No single-point of failure
- 07** Best-in-class reliability
- 08** Remote Updates and Configurable Settings
- 09** 75% reduction in cable costs



## Technical Specifications

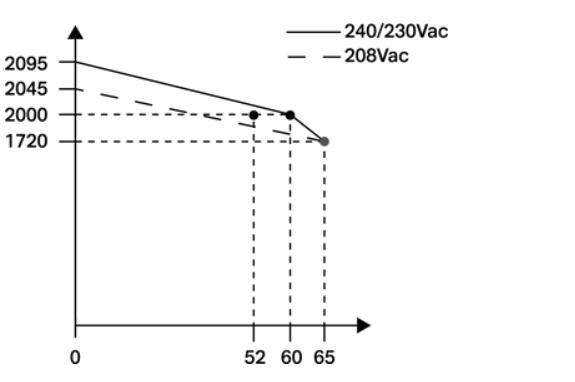
Input (DC) Specifications			AC Output - OFF-Grid		
DC Input Power	W	2000	Operational Voltage Range	V	90-245
Number of channels		4	Nominal Output Frequency	Hz	55
PV Panel Rating Module (STC)	W	Up to 680 Wp per channel	Operational Frequency Range	Hz	54-56
Maximum Input DC Current	A	16 per channel	Regulatory		
Full Power MPPT Voltage Range	V	34 - 45 per channel	Regulatory Certifications		UL1741, UL1741 SA/Rule 21/ HECO/Rule 14H, IEEE1547, IEEE1547.1, CSA22.2 No. 107.1, FCC Part 15-Class B, IEC 60068-2(1,2,14,30), IEC 62109-1/2, IEC 61727, IEC 61000-6-1/ 6-3, IEC 61000-3-2/ 3-2, IEC61683, IS 16221 (PART 2), IS: IS16169
Extended MPPT Voltage Range	V	20 - 60 per channel			
Start-up Voltage	V	19 per channel	Efficiency and Operating Performance		
DC Connection Type		MC4 compatible panel receptacles	Maximum Efficiency	%	97.5
Output (AC) Specifications			CEC Efficiency	%	97
Grid Connection Type		230V L-N from 1-φ	MPPT Efficiency	%	Static: 99.85 - Dynamic: 99.8
Operational Voltage Range	V	184 - 276	Stand-by Consumption	mW	<30
*Maximum Continuous Power	W	2000 @ 60°C	Communication		
Nominal Output Frequency	Hz	50	Monitoring System		Wireless, Web-based monitoring
Operational Frequency Range	z	47.5 - 52.5 default	Environmental		
	H	Extendable according to various standards	Ambient Operating Temperature	°C (°F)	-40 to +65 (-40 to +149)
Power Factor		> 0.99 default. Programmable from 0-0.99 leading/lagging	Relative Humidity	%RH	0 - 100 condensing
Output THD	%	< 2, default	Mechanical		
Inrush Current	A	< 8	Enclosure Rating		NEMA 6, IP-67
Output Wiring Type		14 AWG	Cooling		Natural Convection
Output Connection Type		T5 AC micro male connector 98053	Dimensions (D x W x L)	mm (in)	32 x 261 x 357 (1.25 x 10.3 x 14.0)
Safety and Protection			Weight	kg	3.3 (7.3)
Input Reverse Voltage/Polarity Protection		Yes, Polarized PV Connectors	Recommended Mounting	(lb)	Rack mount with two M8,1/4", or 5/16" bolts
Anti-Islanding Protection		Yes, programmable to meet various standards UL1741, UL1741 SA, Rule 21, IEC	Warranty		
Integrated GFDI		Yes	Standard Limited Warranty		12 years
Isolation		Galvanic isolation	**Extended Warranty		25 years
Abnormal Voltage/ Frequency Trip Time		Less than 200ms	Configurable Smart Grid Parameters		
			Voltage Ride through	Under Voltage	Maximum 4 levels with Programmable ride-through time
			Over Voltage	Maximum 3 levels with Programmable ride-through time	
			Frequency Ride through	Under Frequency	Maximum 6 levels with Programmable ride-through time
				Over Frequency	Maximum 4 levels with Programmable ride-through time
			Reconnect Time		Programmable wait time of 0-5 minutes
			Power Ramp Rate		Programmable on both active and reactive power

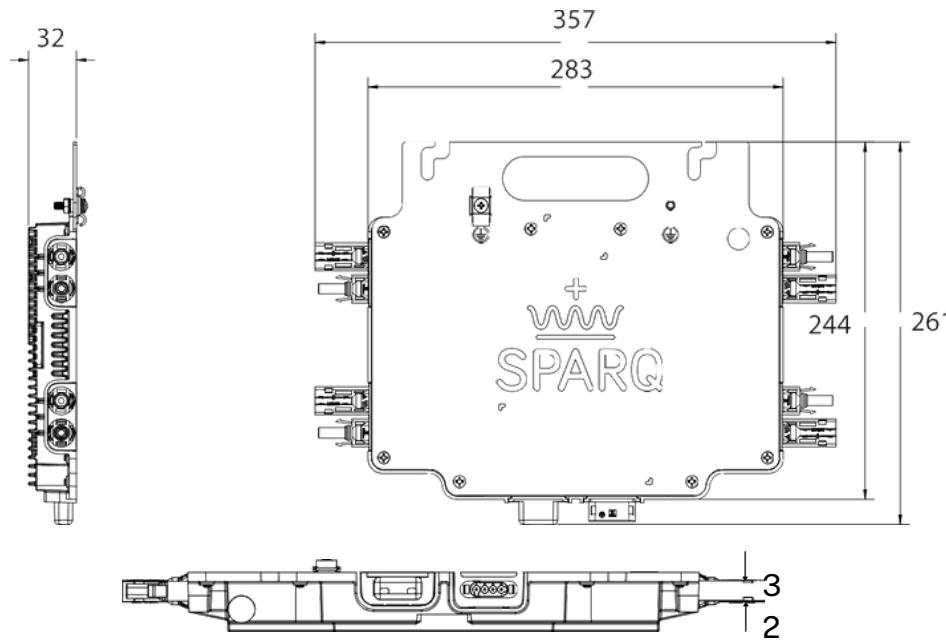
Fig.1 QUAD-DM 2000 AC Output Power vs Temperature Profile.

\*For higher ambient temperature, please refer to the graphs shown in Fig. 1.

\*\*Please reach out to company for more information



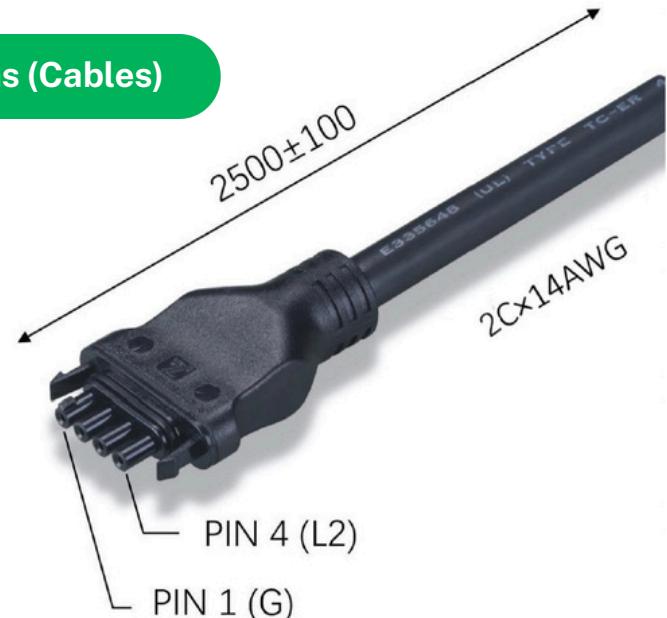
## Mechanical Specifications (Inverter)



## Mechanical Specifications (Cables)

Ti-Lane T5 free connector female 65069-13

PIN1	Empty
PIN2	L: Brown
PIN3	Empty
PIN4	N: Blue



AC Cable from T5 female to open, 2C, AWG 14

Region	Conduct Number	Color Code	Length	Ti-lane P/N
India/Europe	2C	L1:Brown; Neutral:Blue	2m	65069-11
India/Europe	2C	L1:Brown; Neutral:Blue	2.5m	65069-13
India/Europe	2C	L1:Brown; Neutral:Blue	4m	65069-12

All dimensions in mm

Model: Q2000-4102 Single-Phase





## Our Presence



## WHY MICROINVERTERS?

1



Quick and Easy Setup

2



Cloud Based Monitoring

3



Highly Reliable

4



Cost Effective

5



Safe Operation

Contact us

Email: [enterpriseloTcare@jio.com](mailto:enterpriseloTcare@jio.com)

<https://www.jio.com/business/services/iot>



Model: Q2000-  
4102 2 Conductors





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