

# QUAD-DM 2000 For India

## Smartest | Most Reliable | 12 Years Warranty | Automatic Dual Mode

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.





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
- 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
- Remote Updates and Configurable Settings
- 75% reduction in cable costs

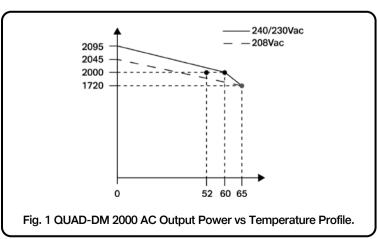


## **Technical Specifications**

Input (DC) Specifications			
DC Input Power	W	2000	
Number of channels		4	
PV Panel Rating Module (STC)	W	Up to 680 Wp per channel	
Maximum Input DC Current	Α	16 per channel	
Full Power MPPT Voltage Range	V	34 - 45 per channel	
Extended MPPT Voltage Range	V	20 - 60 per channel	
Start-up Voltage	V	19 per channel	
DC Connection Type		MC4 compatible panel receptacles	

Output (AC) Specifications			
Grid Connection Type	230V L-N from 1-φ		
Operational Voltage Range	V	184 - 276	
*Maximum Continuous Power	W	2000 @ 60°C	
Nominal Output Frequency	Hz	50	
Operational Frequency Range	Hz	47.5 – 52.5 default	
		Extendable according to various standards	
Power Factor		> 0.99 default.Programmable from 0-0.99 leading/lagging	
Output THD	%	< 2, default	
Inrush Current	А	< 8	
Output Wiring Type		14 AWG	
Output Connection Type		T5 AC micro male connector 98053	

Safety and Protection			
Input Reverse VoltagePolarity Protection		Yes, Polarized PV Connectors	
Anti-Islanding Protection		Yes, programmable to meet various standardsUL1741, UL1741 SA, Rule 21, IEC	
Integrated GFDI		Yes	
Isolation		Galvanic isolation	
Abnormal Voltage/ Frequency Trip Time		Less than 200ms	



AC Output - OFF-Grid				
Operational Voltage Range	V	90-245		
Nominal Output Frequency	Hz	55		
Operational Frequency Range	Hz	54-56		
Regulatory				
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, IEC61883, IS 16221 (PART 2), IS: IS16169		
Efficiency an	d Operati	ng Performance		
Maximum Efficiency	%	97.5		
CEC Efficiency	%	97		
MPPT Efficiency	%	Static: 99.85 – Dynamic: 99.8		
Stand-by Consumption	mW	<30		
Communication				
Monitoring System Wireless, Web-based monitoring				
E	invironme	ntal		
Ambient Operating Temperature	°C (°F)	-40 to +65 (-40 to +149)		
Relative Humidity	%RH	0 – 100 condensing		
	Mechanic	cal		
Enclosure Rating		NEMA 6, IP-67		
Cooling		Natural Convection		
Dimensions (D x W x L)	mm (in)	32 x 261 x 357 (1.25 x 10.3 x 14.0)		
Weight	kg (lb)	3.3 (7.3)		
Recommended Mounting		Rack mount with two M8,1/4", or 5/16" bolts		
	Warrant	у		
Standard Limited Warranty		12 years		
**Extended Warranty		25 years		
Configurable	e Smart G	rid Parameters		
VoltageRide through	Under Voltage	Maximum 4 levels withProgrammable ride- through time		
Voltagenide till Ougil	Over Voltage	Maximum 3 levels withProgrammable ride- through time		
FrequencyRide through	Under Frequency	Maximum 6 levels withProgrammable ride- through time		
	Over Frequency	Maximum 4 levels withProgrammable ride- through time		
Reconnect Time		Programmable wait time of 0-5 minutes		
Power Ramp Rate		Programmable on both active and reactive power		

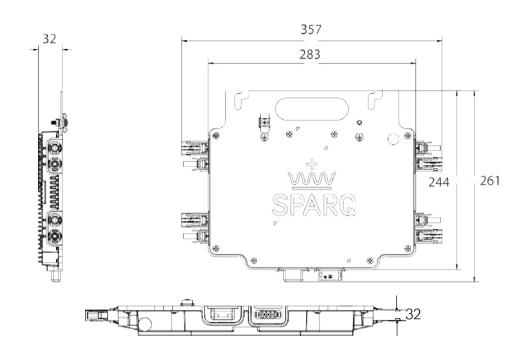
<sup>\*</sup>For higher ambient temperature, please refer to the graphs shown in Fig. 1.

Model: Q2000-4102 Single-Phase

<sup>\*\*</sup>Please reach out to company for more information

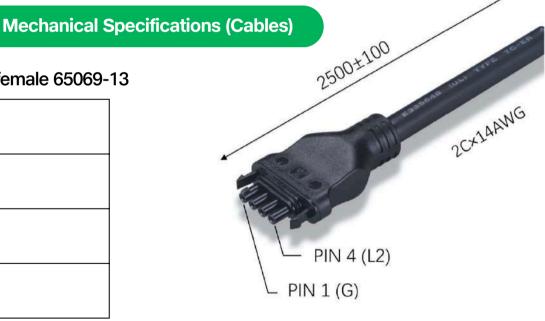


#### **Mechanical Specifications (Inverter)**



### 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

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