

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.

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



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	A	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	A	< 8
Output Wiring Type		14 AWG
Output Connection Type		T5 AC micro male connector 98053

Safety and Protection

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

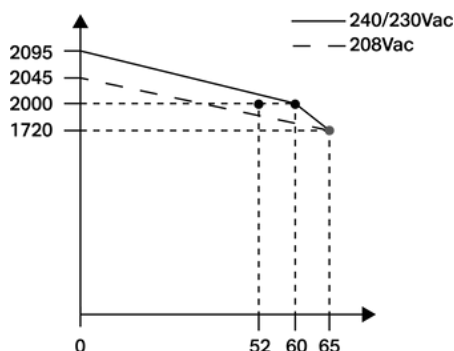


Fig. 1 QUAD-DM 2000 AC Output Power vs Temperature Profile.

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, IEC61683, IS 16221 (PART 2), IS: IS16169
---------------------------	--	---

Efficiency and Operating 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
-------------------	--	--------------------------------

Environmental

Ambient Operating Temperature	°C (°F)	-40 to +65 (-40 to +149)
Relative Humidity	%RH	0 – 100 condensing

Mechanical

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

Warranty

Standard Limited Warranty		12 years
**Extended Warranty		25 years

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

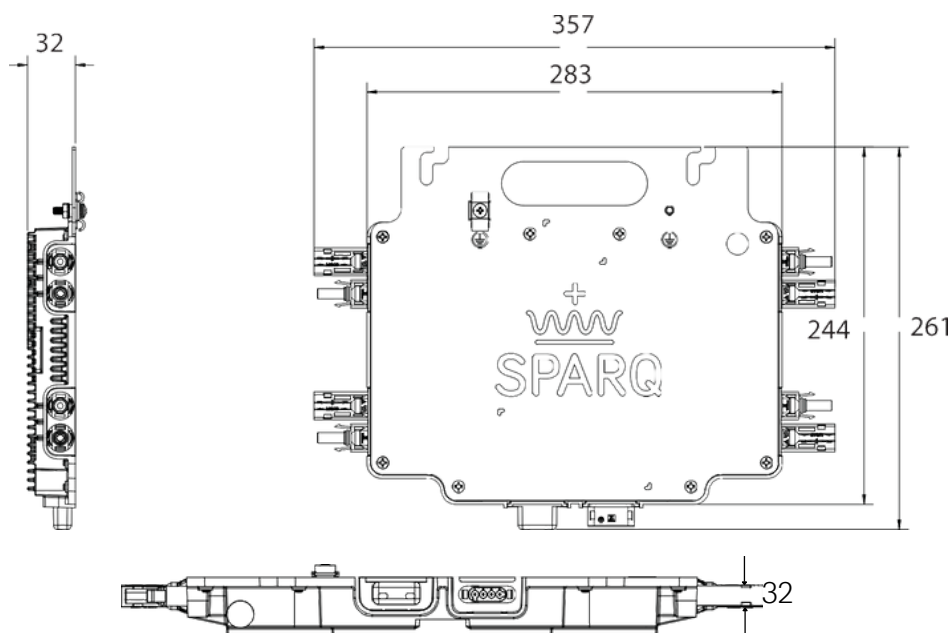
*For higher ambient temperature, please refer to the graphs shown in Fig. 1.

**Please reach out to company for more information

Model: Q2000-4102
Single-Phase



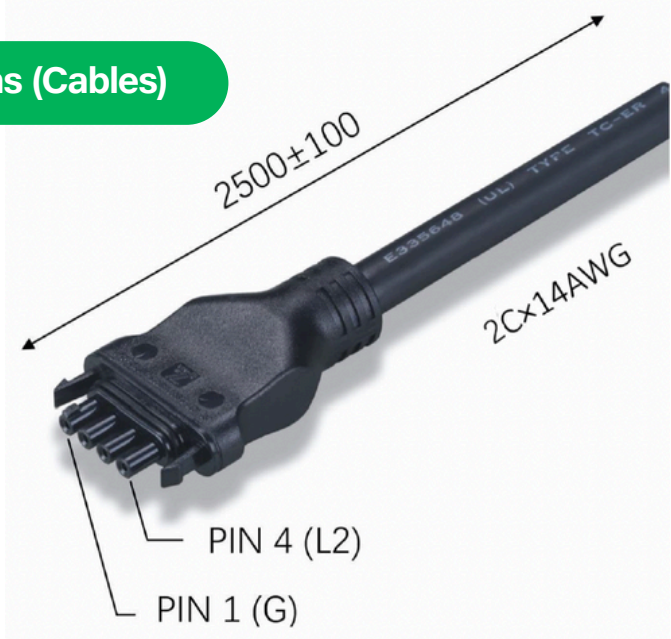
Mechanical Specifications (Inverter)



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

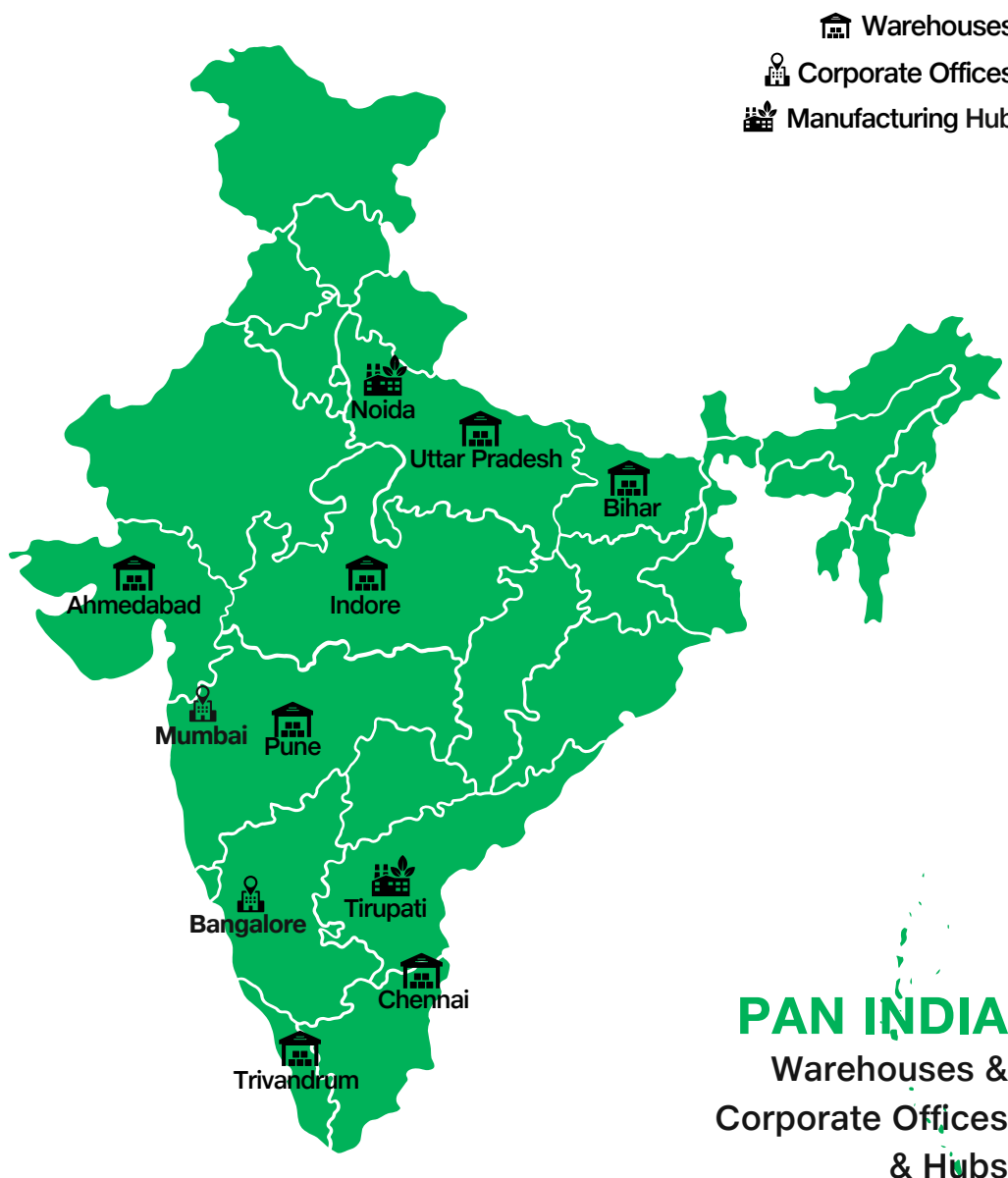
Region	Conduct Number	Color Code	Length	Ti-lane P/N
India/Europe	2C	L1:Brown; Neutral:Blue	2m	65069-11
India/Europe	2C	L1:Brown; Neutral:Blue	2.5m	65069-13
India/Europe	2C	L1:Brown; Neutral:Blue	4m	65069-12

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

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

