



QUAD Q1200

Smartest | Most Reliable | Lowest Cost

The **Quad Q1200** is changing the industry standards for today's solar energy solutions, with 4 individual DC input channels for a maximum energy harvest and independent peak power tracking for up to four PV modules.

Four Panels, One Inverter

The **Quad Q1200** microinverter uses patented technologies that eliminate the use of short-life electrolytic capacitors, providing high reliability, and a 25-year design life.

Based on a Per-Watt rating, the Quad has the lowest microinverter cost, the highest power output, the highest power density, and the lowest weight in the industry.



- Maximum energy harvest
- Quick installation
- Safe operation – all AC , with no high-voltage DC
- 75% reduction in cable costs
- Best in class reliability
- No single-point of failure
- Cloud-based performance monitoring for each panel
- Remote updates and programming

Model:

Q1200-4102

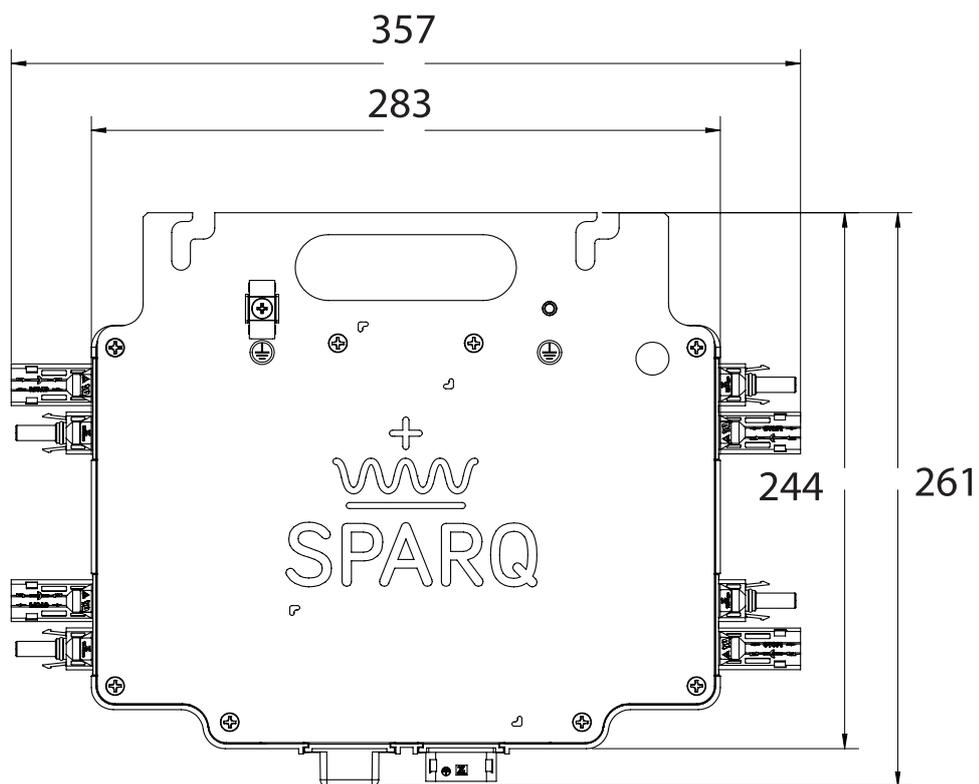
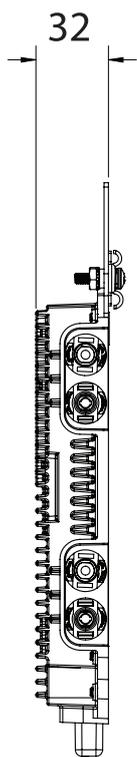
Configuration: 3C

Key Specifications		Unit			Q1200-4102		
Maximum Continuous AC Output Power	W				1350		
Number of Input Channels					4		
Rated Grid AC Voltage	V				208 /230/ 240 auto configurable		
Input (DC) Specifications							
PV Panel Rating	W				Up to 400 W _p DC per channel		
Absolute Maximum Input DC Voltage	V				60 per channel		
Maximum Input DC Current	A				16 per channel		
Full Power MPPT Voltage Range	V				23 - 47 per channel		
Extended MPPT Voltage Range	V				20 - 50 per channel		
Start-up Voltage	V				19 per channel		
DC Connection Type					MC4 compatible panel receptacles		
Output (AC) Specifications							
Grid Connection Type		208V L-L from 3- ϕ	240V L-L from Split- ϕ	230V L-N from 1- ϕ			
Operational Voltage Range	V	183 - 229	211 - 264	184 - 276			
Nominal Output Frequency	Hz	60		50			
Operational Frequency Range	Hz	59.3 - 60.5 default		47.5 - 50.5	Extendable according to various standards		
Output Current	A				5 (nominal)		
Power Factor					> 0.99 default, programmable from 0-0.99 leading/lagging		
Output THD	%				< 2, default		
Inrush Current	A				< 8		
Output Wiring Type					18 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		
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), IEC62109-1:2010, IEC 62109-2:2011, IEC 61727:2004, IEC 61000-6-3:2007, IEC 61000-6-1:2007, IEC 61000-3-2:2007, IEC 61000-3-3:2007, IEC61683:1999		

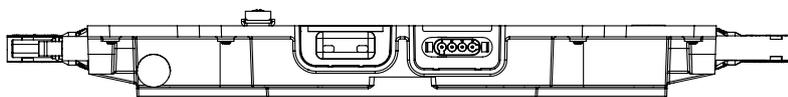
Efficiency and Operating Performance		Unit		Q1200-4102	
Maximum Efficiency	%			97.0	
CEC Efficiency	%			96.5	
MPPT Efficiency	%			Static: 99.85 – Dynamic: 99.8	
Stand-by Consumption	mW			< 30	
Communication					
Monitoring System				Wireless, Web-based monitoring through SparqLinq and SparqVu	
Environmental					
Ambient Operating Temperature Range	°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 (H x W x D)	mm (in)			32 x 186 x 285 (1.25 x 7.3 x 11.2)	
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	
Programmable Parameters for Smart Grid					
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			
Volt-VAR		Programmable VAR injection and power factor limit			
Frequency-Watt		Programmable active power curtailment with an adjustable rate of Watt per Hz			

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Configuration: 3C

Mechanical Specifications (inverter)



All dimensions in mm



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Mechanical Specifications (cables)

Ti-Lane T5 free connector female 65069-04



PIN1	G: Empty
PIN2	L1: Wire Color Black
PIN3	N: Wire Color White
PIN4	L2: Wire Color Red

All dimensions in mm

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