

# 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.



the Quad has the lowest microinverter cost, the highest power output, the highest power density, and the lowest weight in the industry.



- 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: **Q1200-410 2**Con guration: 3C

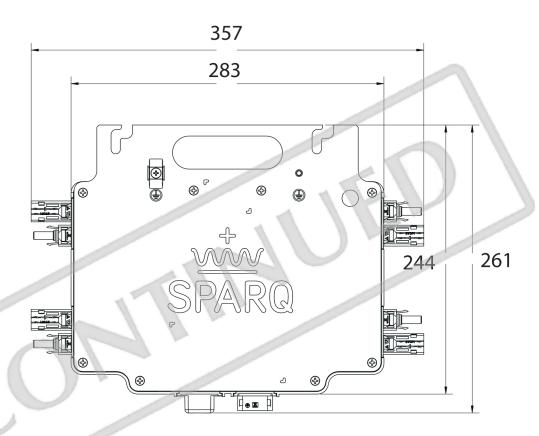
KeySpecifications	Unit		Q1200-4102	)
MaximumContinuousACOutputPower	W		1350	
NumberofInputChannels			4	
RatedGridACVoltage	V	208/230/240autoconfigurable		igurable
Input (DC) Specifications		200,200	/ = 10441000111	-Barasto
PVPanelRating	W	Unto	100WpDCperd	channel
AbsoluteMaximumInputDCVoltage	V	60perchannel		
MaximumInputDCCurrent	Α	16perchannel		
FullPowerMPPTVoltageRange	V	23-47perchannel		
ExtendedMPPTVoltageRange	V	20-50perchannel		
Start-upVoltage	V	19perchannel		
DCConnectionType	-	·		
••		MC4compatiblepanelreceptacles		
Output (AC) Specifications		208VL-L	240VL-L	230VL-N
GridConnectionType				
		from3-φ fr		from1-φ 184-276
OperationalVoltageRange	V	183-229	211-264	50
NominalOutputFrequency	Hz		60	47.5-50.5
On a set in a silf and a set of a			).5default	
OperationalFrequencyRange	Hz	Ext	endableaccor	dingto
		various standards		
Output Current	Α		5(nominal)	
Power Factor		> 0.99 default, programmable		
		from 0-0.99 leading/lagging		
Output THD	%	<2,default		
Inrush Current	Α	<8		
Output Wiring Type		18 AWG		
Output Connection Type		T5 AC micro male connector 98053		
Safety and Protection				A CONTRACTOR OF THE PARTY OF TH
Input Reverse Voltage		Ves Pol	larized PV Con	inectors
Polarity Protection		103,100	unzeur v con	incctors
		Yes, programmable to meet		
Anti-Islanding Protection		various standards		
		UL1741, U	L1741 SA, Rul	e 21, IEC
Integrated GFDI		- 4	Yes	
Isolation		0	alvanic isolat	ion
Abnormal Voltage/	1		Less than 200	ms
Frequency Trip Time			LC33 triair 200	1113
Regulatory			and the same	
		UL1741	, UL1741 SA/F	Rule 21/
	1	HECO/Rule 14H, IEEE1547,		
	1	IEEE1547.1, CSA22.2 No. 107.1, FCC Part 15-Class B. IEC 60068-2(1,2,14,30),		
				14,30),
		IEC62109-1:2010,		
Regulatory Certifications	-	IEC 62109-2:2011,		
		IEC 61727:2004, IEC 61000-6-3:2007, IEC 61000-6-1:2007, IEC 61000-3-2:2007,		
			61000-3-3:2	
		IEC61683:1999		
	1			

EfficiencyandOperation	ingPerformance Unit		Q1200-4102	
MaximumEf		%	97.0	
CECEffic	iency	%	96.5	
MPPTEffic	MPPTEfficiency		Static:99.85-Dynamic:99.8	
Stand-byCon	Stand-byConsumption		<30	
Communication				
	MonitoringSystem		Wireless,Web-basedmonitoring through SparqLinq and SparqVu	
Environmental		(OE)	(5(10) 10)	
AmbientOperatingTemperatureRange°C			-40to+65(-40to+149) 0-100condensing	
RelativeHu	Humidity %		0-100condensing	
Mechanical	Dating		NEMA/ ID / D	
Enclosure			NEMA6,IP-67	
Cooli			NaturalConvection	
Dimensions(H	xWxD) mm(in		32x186x285(1.25x7.3x11.2)	
Weig		kg(lb)	3.3(7.3)	
Recommende	dMounting		RackmountwithtwoM8, 1/4", or 5/16" bolts	
Warranty				
StandardLimite			12Years	
Programmable Par	ameters for Sma	rt Grid		
Voltage Ride-through Over Voltage	ge.	Maximum 4 levels with		
		or ,	programmable ride-through time	
	Over Voltag	re .	Maximum 3 levels with	
	4	, /	programmable ride-through time	
Under Freque		encv	Maximum 6 levels with	
Frequency			programmable ride-through time	
Ride-through Over Freque	ncv	Maximum 4 levels with		
Muc amough Over rieque		y	programmable ride-through time	
Reconnect Time			Programmable wait time	
Reconnect Time	lect Time		of 0-5 minutes	
Power Ramp Rate			Programmable on both active	
			and reactive power	
Volt-VAR			Programmable VAR injection	
VOIL-VAIL			and power factor limit	
Frequency-Watt			Programmable active power	
			curtailment with an adjustable	
			rate of Watt per Hz	

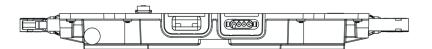
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# Mechanical Specifications (inverter)





All dimensions in mm



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## Mechanical Specifications (cables)



All dimensions in mm

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

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