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



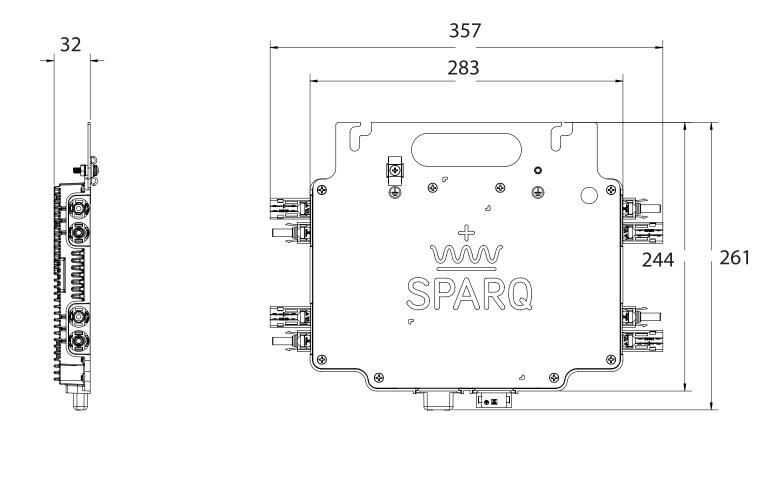


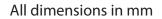
Key Specifications	Unit		Q1200-4102		
Maximum Continuous AC Output Power	W		1350		
Number of Input Channels	**		4		
Rated Grid AC Voltage	V	208 /230/ 240 auto configurable		onfigurable	
Input (DC) Specifications	v	200723		Jilligulable	
PV Panel Rating	W	Un to 4	100 W DC per	channel	
Absolute Maximum Input DC Voltage	V	Up to 400 W _p DC per channel 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	'			
Start-up Voltage	V	20 - 50 per channel 19 per channel			
	v				
DC Connection Type		MC4 compatible panel receptacles			
Output (AC) Specifications		2001/11	240V L-L	220V/ L NI	
Grid Connection Type		208V L-L		230V L-N	
			from Split- φ	from 1-φ	
Operational Voltage Range	V	183 - 229	211 - 264	184 - 276	
Nominal Output Frequency	Hz		60	50	
Operational Frequency Bange	Hz		0.5 default	47.5 - 50.5	
Operational Frequency Range	пг	Extendable according to		5	
		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	Α	< 8			
Output Wiring Type		18 AWG			
Output Connection Type		T5 AC micro male connector 98053			
Safety and Protection					
Input Reverse Voltage		Yes, Polarized PV Connectors			
Polarity Protection		ies, rolanzed PV Connectors			
		Yes, p	Yes, programmable to meet		
Anti-Islanding Protection		various standards UL1741, UL1741 SA, Rule 21, IEC		rds	
				e 21, IEC	
Integrated GFDI			Yes		
Isolation		(Galvanic isolatio	on	
Abnormal Voltage/		Less than 200ms		ns	
Frequency Trip Time			2000		
Regulatory					
		UL1741	, UL1741 SA/R	ule 21/	
		HECO/Rule 14H, IEEE1547,			
		IEEE1547	IEEE1547.1, CSA22.2 No. 107.1,		
		FCC Part 15-Class B. IEC 60068-2(1,2,14,30),		в.	
				,30),	
		IEC62109-1:2010,			
Regulatory Certifications		IEC 62109-2:2011, IEC 61727:2004,		1,	
				ŀ,	
			2 61000-6-3:20		
			2 61000-6-1:20		
			C 61000-3-2:20		
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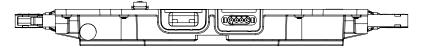
Maximum Efficiency%97.0CEC Efficiency%96.5MPT Efficiency%Stand-by ConsumptionmWMonitoring SystemWireless, Web-based monitoring through SparqLinq and SparqVuEnvironmentalMonitoring Temperature Range?C (°F)-40 to +65 (-40 to +149) Relative Humidity%RH0 - 100 condensingMechanicalEnclosure RatingNEMA 6, IP-67 CoolingCoolingNatural ConvectionDimensions (H x W x D)mm (in)32 x 186 x 285 (1.25 x 7.3 x 11.2) WeightWeightkg (lb)3.3 (7.3)Recommended MountingNatural ConvectionDimensions (H x W x D)mm (in)32 x 186 x 285 (1.25 x 7.3 x 11.2)Weightkg (lb)3.3 (7.3)Recommended MountingNatural ConvectionDimensions (H x W x D)mm (in)32 x 186 x 285 (1.25 x 7.3 x 11.2)Weightkg (lb)3.3 (7.3)Recommended MountingUnder VoltageVoltageNoter VoltageMaximum 4 levels with programmable ride-through time programmable ride-through time programmable ride-through time programmable ride-through time of 0-5 minutesPower Ramp RateProgrammable on both active and reactive power curtailment with an adjustableVolt-VARProgrammable active power curtailment with an adjustable	Efficiency and Operat	ting Performance	Unit	Q1200-4102
CEC Efficiency%96.5MPPT Efficiency%Static: 99.85 – Dynamic: 99.8Stand-by ConsumptionmW< 30	Efficiency and Operating Performance Maximum Efficiency			
MPPT Efficiency % Static: 99.85 - Dynamic: 99.8 Stand-by Consumption mW < 30			%	96.5
Stand-by Consumption mW < 30	`		%	Static: 99.85 – Dynamic: 99.8
Communication 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 Maximum 4 levels with programmable ride-through time Voltage Under Voltage Maximum 3 levels with programmable ride-through time Ride-through Over Voltage Maximum 4 levels with programmable ride-through time Reconnect Time Over Frequency Maximum 4 levels with programmable ride-through time Power Ramp Rate Programmable on both active and reactive power Volt-VAR Programmable VAR injection and power factor limit Programmable active power			mW	· · ·
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Mechanical Specifications (inverter)

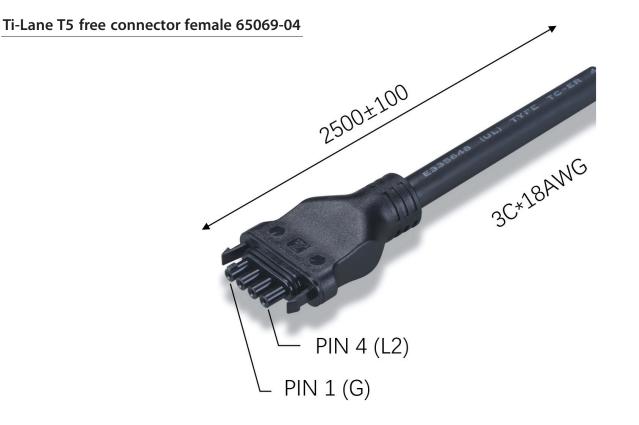








Mechanical Specifications (cables)



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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