



Solar Inverter Product Overview

Solar inverters, monitoring and support
for PV installations of all sizes

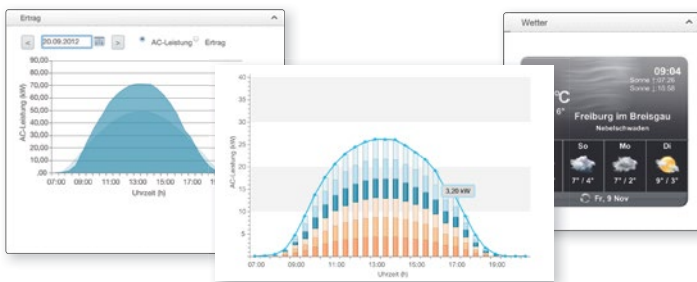
SOLIVIA Monitor

Monitoring for your PV installation

SOLIVIA Monitor is a turn-key monitoring system suitable for monitoring several PV systems, which ensures reliable operation and a maximum return on your investment in your solar system.

With its user-friendly Internet application, which provides a quick overview of the most important values, the yield and the system status, the SOLIVIA Monitor is ideal for monitoring PV systems up to 100 kW.

SOLIVIA Live is the smartphone and tablet PV system monitoring solution from Delta. The application allows monitoring of your PV installation anytime and anywhere. The application is available for Apple iOS, Windows Phone 8 and Android operating systems.

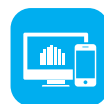


Simple and secure data reporting



Real-time performance data is gathered from the inverters, sent over the internet, and presented on your computer or web-enabled device with easy to read graphs and reports.

Turn-key monitoring system



The SOLIVIA Monitor system includes the gateway, database, and web application to allow a complete monitoring solution of one or many solar PV systems.

System alerts



Downtime is minimized with automated alerts providing immediate notification of current or potential problems, which increases the return from your solar investment.

Unlimited PV Plants



After registering online, all users can set up an unlimited number of PV plants. This is handy for installers that want to administer or check operation status of their customers' PV plants.

About Delta

Smarter. Greener. Together.

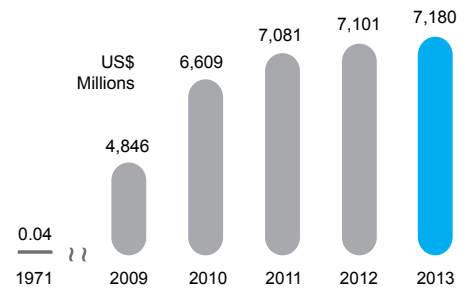
Delta Group, founded in 1971, is the global leader in power and thermal management solutions. Our mission statement, "To provide innovative, clean and energy-efficient solutions for a better tomorrow," focuses our role in addressing key environmental issues such as global climate change. As an energy-saving solutions provider, Delta's businesses encompass power electronics, energy management, and smart green life. Delta has sales offices worldwide and manufacturing facilities in Taiwan, China, USA, Europe, Thailand, Japan, India, Mexico, and Brazil.

Since 1999 the subsidiary Delta Energy Systems has invested in the development and global marketing of the Solar Inverter Program, which has made an important and successful contribution to Delta's focus on offering our customers environmentally-friendly power generation for residential and commercial applications. Further, Delta supports installers and users across the whole lifetime of our solar inverter products.

We care deeply about providing fast response times, knowledgeable personnel and overall customer satisfaction. At Delta Energy Systems we believe that more than good products are needed to maximise your energy efficiency.

Worldwide Revenues

33.4% CAGR
Since 1971



2.5 kVA - 5 kVA



	2.5 TR	3.0 TR	3.3 TR	3.6 TR	RPI H4A	RPI H5A
Input (DC)						
Nominal power (W)	2750	3300	3600	3850	4200	5250
Voltage range (V)	125 ... 600				100 ... 550	
Full power MPP range (V)	150 ... 480			170 ... 480	180 ... 550 ¹⁾	220 ... 500 ¹⁾
Max. number of MPP Trackers	1				2	
Output (AC)						
Number of phases	1					
Nominal apparent power (VA) ²⁾	2500	3000	3300	3600	4000 ³⁾	5000 ⁴⁾
Voltage range (V) ⁵⁾	230 (-20% / +20 %), 1 phase (L,N, PE)				230 (-20 % / +22 %), 1 phase (L,N, PE)	
Nominal frequency (Hz) ⁵⁾	50 / 60 ± 5					
Power factor adjustable ⁶⁾	0.8 capacitive ... 0.8 inductive					
Additional Information						
Max. efficiency (%)	96.1	96.1	96.0	96.0	97.5	97.5
Efficiency EU (%)	94.3	94.6	94.7	94.6	97.0	96.8
Operating temperature (°C)	-25 ... +70 (full power up to +55 °C for 2.5 ... 3.6 TR)				-25 ... +60 ⁷⁾	
Protection degree	IP65					

¹⁾ When operated with balanced DC inputs (50/50 %)

²⁾ Cos Phi = 1 (VA = W)

³⁾ 3.68 kW for United Kingdom

⁴⁾ 4.6 kW for Germany

⁵⁾ AC voltage and frequency range will be programmed according to the individual country requirements

⁶⁾ Full active power fed up to cos φ = 0.9 (for SOLIVIA 2.5 ... 3.6)

⁷⁾ Full power without derating up to +40 °C for H4A / H5A

Delta Solar Inverters

Exceptional performance and advanced features

Maximum profitability



Delta solar inverters achieve a peak efficiency of up to 98.6 % and offer one of the largest operating temperature ranges available. Full output up to 55 °C ambient temperature to maximise energy efficiency and ensure maximum profitability.

Long lifetime



Delta inverters have a very long lifetime thanks to the durable aluminum housing and high quality robust electronics that are employed in their design. Continuous product improvement is ensured due to comprehensive testing during product development and in production.

Easy installation



The lightweight, compact design combined with the unique wall bracket makes installation of the solar inverters greatly simplified. All inverters ship standard with a mounting bracket and AC plug to allow quick installation right out of the box.

Aluminium housing



The aluminium housing of Delta solar inverters ensure long lasting protection against moisture and corrosion. The dust-proof, completely shock-proof housing protects the electronics of the solar inverter from water spray from all directions. This means that it can be installed in protected outdoor areas, damp basements and areas with a high level of dust (agriculture).

6 kVA - 10 kVA



	RPI M6A	RPI M8A	RPI M10A
Input (DC)			
Nominal power (W)	6600	8800	11000
Voltage range (V)	200 ... 1000		
Full power MPP range (V) ¹⁾	315 ... 850	415 ... 800	
Max. number of MPP Trackers	2 ²⁾		
Output (AC)			
Number of phases	3		
Nominal apparent power (VA) ³⁾	6000	8000	10000
Voltage range (V) ⁴⁾	230 ± 20 % / 400 V _{AC} ± 20 %; 3 phase + PE or 3 phase + N + PE		
Nominal frequency (Hz) ⁴⁾	50 / 60 ± 5		
Power factor adjustable	0.8 capacitive ... 0.8 inductive		
Additional Information			
Max. efficiency (%)	98.3	98.3	98.3
Efficiency EU (%)	97.6	97.9	98.0
Operating temperature (°C)	-25 ... +60 (full power up to +40 °C)		
Protection degree	IP65		

¹⁾ When operated with balanced DC inputs (50/50 %)

²⁾ Parallel inputs: 1 MPP Tracker. Separate inputs: 2 MPP Trackers, input load: symmetrical and asymmetrical (for M6A, M8A, M10A: 40/60 %)

³⁾ Cos Phi = 1 (VA = W)

⁴⁾ AC voltage and frequency range will be programmed according to the individual country requirements

The Delta Advantage

More than just great products



Strong and reliable company with local presence

- Experienced contact partners in your area and in your language
- Knowledge of the local grid access conditions

Highly reliable products with extensive testing and continuous improvement

- Extensively tested products in extreme conditions
- Robust electronics and die-cast aluminum chassis
- IP65 protection class for outdoor installation

Extensive support for sales partners, installers, and plant operators

- Delta Solar Team offers inverter training courses which can be run on your premises upon request
- Dedicated Solar Support Hotline which is there when you need help

Solar inverters with exceptional power density and advanced features

- The inverters in the new RPI series are characterized by a high power density, the M50A has one of the highest in the 50 kVA inverter class

15 kVA - 50 kVA



	RPI M15A	RPI M20A	30 TL	RPI M50A
Input (DC)				
Nominal power (W) ¹⁾	15600	20600	31000	52000
Voltage range (V)	200 ... 1000		250 ... 1000	200 ... 1000
Full power MPP range (V) ²⁾	355 ... 820	470 ... 820	480 ... 800	520 ... 800
Max. number of MPP Trackers	Parallel inputs: 1 MPP Tracker, Separate inputs: 2 MPP Trackers, input load: symmetrical and asymmetrical (for M15A / M20A / 30 TL: 33/67 %; for M50A: 40/60%)			
Output (AC)				
Number of phases	3			
Nominal apparent power (VA) ³⁾	15000	20000	30000	50000
Voltage range (V) ⁴⁾	230 ± 20 % / 400 V _{AC} ± 20 %; 3 phase + PE or 3 phase + N + PE			
Nominal frequency (Hz) ⁴⁾	50 / 60 ± 5			
Power factor adjustable	0.8 capacitive ... 0.8 inductive			
Additional Information				
Max. efficiency (%)	98.3	98.4	98.2	98.6
Efficiency EU (%)	97.9	98.1	97.9	98.4
Operating temperature (°C)	-25 ... +60 ⁵⁾			
Protection degree	IP65			

¹⁾ Max. power per DC input with asymmetrical load is: 11.1 kW for M15A; 14.8 kW for M20A; 20.1 kW for 30 TL; 34.8 kW for M50A

²⁾ When operated with balanced DC inputs (50/50 %)

³⁾ Cos Phi = 1 (VA = W)

⁴⁾ AC voltage and frequency range will be programmed according to the individual country requirements

⁵⁾ Full power without derating up to: +49 °C for M15A and +47 °C for M20A with nominal voltages (AC and DC); +40 °C for 30 TL and M50A

Delta Service & Support

Reliable, Flexible and Competent

Good service is very important. Therefore Delta provides reliable, flexible and competent support. Customer satisfaction and fast response times are not just words for Delta. Delta cares for partners and customers during the complete lifetime of the product.

Our highly motivated Solar Team supports Delta's customers via our dedicated Solar Support Hotline which is there when you need help.

If necessary, you can receive local support from our service teams. Exchange units and components are available within two working days.

Do you need detailed information about the solar inverter; No problem! Our Delta Solar Team offers inverter training courses which can be run either on our premises or on your premises on request.



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