



The power behind competitiveness

# Delta RPI-Commercial Series

RPI M30A



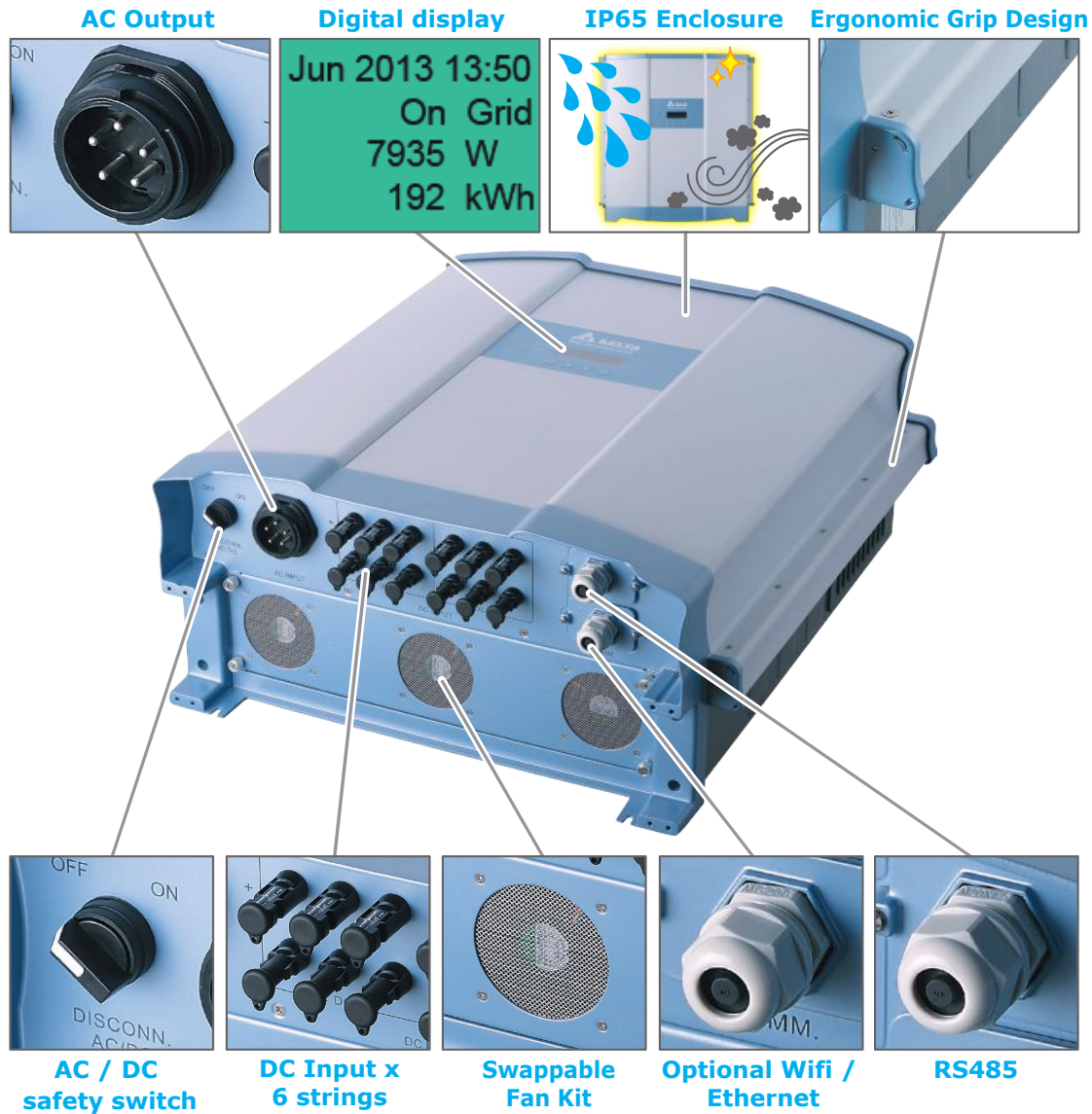
## Product Features

- Dual MPP Trackers
- Reactive Power Control
- Optional wifi / ethernet
- Transformerless design
- Peak efficiency 98.5%
- Low voltage ride through(LVRT)
- Easy mounting system design
- Ergonomics handle design
- 6 sets DC Input
- Wide input voltage range
- IP65 protection level
- RS485 communication



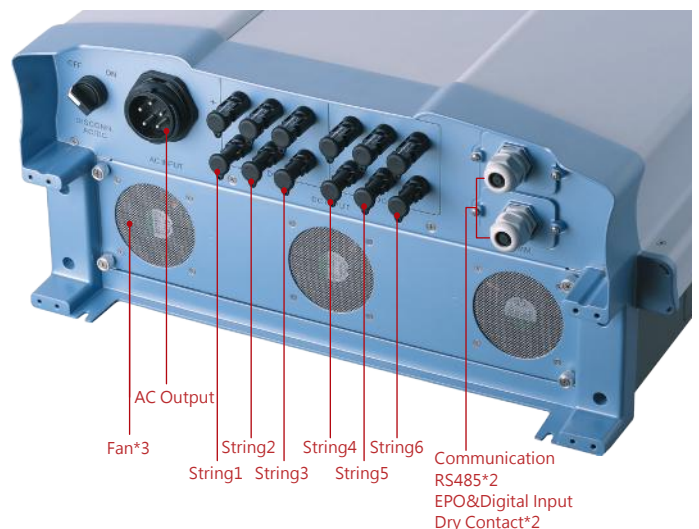
# Delta Grid PV Inverter

Delta RPI - Commercial series of transformerless PV inverter converts the sunlight energy generated by solar panels into grid-compatible current. Delta's industrial cutting-edge technology presents the industrial leading efficiency as high as 98.5% with the most compact size design and durable quality PV inverter to ensure your PV system operation.



## High Quality Enclosure

Convection cooled aluminum housing is designed with 2 separate compartments for electronic components and air cooling purposes in order to emit the heat more efficiently. IP65 rated enclosure and corrosion resistant features ensure the inverter protection in both indoor and outdoor environment. DC input adopts the MC4 fast connects which allows easy plug in during installation.





## ***Flexibility in rooftop / ground applications***



Outstanding compact size of Delta RPI-Commercial 3 phase PV inverters gives high flexibility to different applications in rooftop or ground solar systems. It is designed in string inverter concept by having the most compact size with high level IP65 protection. It is flexible in rooftop solar solution without limited by obstacles on rooftop, and also in large scale solar power plant site. More flexibility is given to site planning, construction & maintenance due to RPI-Commercial PV inverter's compact size and light weight. Dual MPPT trackers enable PV system facing different directions while getting maximum sun radiation & perform at max efficiency.

## ***Easy Installation & Swappable feature***

Installation of RPI-Commercial series is easy and safe with fast plug connection design.

This helps to speed up the installation and save the installation costs.

The unit has vertical die-casting cooling heat sink and additional cooling fan module below enhance air circulation, bringing down the unit temperature to maintain system performance.

Cooling fan module below inverter is designed with easy swappable feature.

User can simply unscrews and withdraw the cooling fan module to replace single fan if necessary.

## ***High Efficiency Performance***

Transformerless topology design gives high peak efficiency up to 98.5% delivering more usable energy.

Two sets of MPPT optimize power from multiple arrays oriented in different directions.

This optimized energy harvesting can provide user the maximum pay-back solar system.

## ***Multiple Max Power Point Trackers***

2 sets of MPPTs optimize power harvesting from multiple arrays oriented in different directions.

The inverter will track the optimal power point for each of the two arrays independently.

Both inputs can be combined and used with a single array as well.

## ***Ultra Wide Working Voltage Range***

Wide operating voltage range from 200V up to 1000V is making module configuration more flexible.

Even under cold environment, wide MPPT range makes it easy to configure PV arrays and stay within range.



# Delta Commercial Series

## M30A

### Technical Specifications

| Model                   | M30A                           |                                |  |
|-------------------------|--------------------------------|--------------------------------|--|
| DC Input                | Max. input voltage             | 1000V                          |  |
|                         | Operating voltage range        | 200~1000V                      |  |
|                         | MPP voltage range (full power) | 520~800V                       |  |
|                         | Start voltage                  | >250V                          |  |
|                         | Rated voltage                  | 600V                           |  |
|                         | Max. input current             | Each MPPT: 30A<br>Total: 60A   |  |
|                         | MPP tracker                    | 2                              |  |
|                         | Connection type                | 6 pairs MC4                    |  |
| AC Output               | Rated output power             | 30kW / 30kVA                   |  |
|                         | Max. output power              | 33kW / 33kVA                   |  |
|                         | Max. output current            | 50A                            |  |
|                         | Rated voltage                  | 3Ph 230/400V Y or Δ            |  |
|                         | Operating voltage range        | ±20%                           |  |
|                         | Operating frequency range      | 50/60Hz ±5Hz                   |  |
|                         | Power factor (adjustable)      | 0.8 ind ~ 0.8 cap              |  |
|                         | THD                            | <3%                            |  |
| Night time consumption* | <3W                            |                                |  |
| Efficiency              | Peak efficiency                | 98.5%                          |  |
|                         | Euro efficiency                | 98.2%                          |  |
| Information             | DC Switch                      | DC Relays                      |  |
|                         | Communication port             | RS485                          |  |
|                         | Display                        | 20 x 4 LCD                     |  |
| Certification           | VDE-AR-N 4105                  | VDE 0126-1-1                   |  |
|                         | BDEW                           | NB/T 32004: 2013               |  |
|                         | GB/T 19964: LVRT               | IEC 62109-1/-2                 |  |
|                         | EN 61000-6-2                   | EN 61000-6-3                   |  |
| General Data            | Operating temp. range          | -25~60°C (Derating above 45°C) |  |
|                         | Protection level               | IP65                           |  |
|                         | Operating elevation            | <2000m                         |  |
|                         | Cooling                        | Cooling fans                   |  |
|                         | Dimension (W x H x D, mm)      | 612 x 625 x 278                |  |
|                         | Weight                         | 48kg                           |  |

\* Night time consumption with standby communication & display  
- All specifications are subject to change without prior notice.

DELTA ELECTRONICS, INC.

39 Section 2 Huandong Road,

Shanhua Township,

Tainan County 74144, Taiwan, R.O.C.

TEL 886-6-5056565

FAX 886-6-5051919

<http://www.deltaww.com>

