

RenE-OutD 17400-48

Renewable Hybrid Telecom Site Solution



Delta's new RenE-OutD 17400-48 renewable-hybrid solution provides the network site power with any combination of AC grid and diesel generator power with renewable solar or wind energy sources. The RenE-OutD 17400-48 is based on the OutD cabinet with various climate management options for the different environments worldwide.

The system includes automatic transfer switch (ATS) for AC-grid/Genset input, rectifiers, solar converters, power distribution unit for solar and wind power, load and battery connections. Depending on the power, backup and battery life time requirement the system is expandable with battery cabinets. The Delta controller is responsible for the energy and site infrastructure management and supervision.

The fully integrated solution and careful energy management minimize the waste of energy during the day / night energy cycling process. RenE secures reliable power supply even in remote and rural areas. It is energy efficient and OPEX optimized solution ensures lower CO₂ emissions.

Key Features

- Power up to 17.4kW, high power density
- Renewable green energy by wind and solar power
- Cyclic battery discharge for genset fuel efficiency
- Delta controller for ultimate energy management and site control

Applications

- 3G / 4G / 5G
- Fixed Line
- Datacom
- Remote areas with difficult site access



RenE-OutD 17400-48



GOASEM-01-AC

INPUT GRID SECTION

| | |
|-------------------|---|
| Voltage (nominal) | 3 x 230V _{AC} (L-N); 3L, N, PE |
| Voltage (range) | 88 - 300V _{AC} |
| AC SPD | Optional |
| Frequency | 45 - 66Hz |

INPUT GENERATOR SECTION

| | |
|---------------------------|---|
| Voltage (nominal) | 3 x 230V _{AC} (L-N); 3L, N, PE |
| Current Nominal / Phase | 32 A _{RMS} |
| Automatic Transfer Switch | Voltage relay monitoring, Mechanical interlocking |
| Mains Terminal | Terminal blocks, or Main breaker |
| Input Protection | Optional |

INPUT RENEWABLE POWER SECTION

| | |
|-------------------------|-----------------------|
| Renewable DC connection | 6 feeds 50A |
| Voltage Range | 60-150V _{DC} |
| Current Max / Pole | 48A _{DC} |
| Input Terminal | Circuit breakers |
| Input Protection | 6 x 50A 2P |
| Transient Protection | 1000 DC/2+V optional |

OUTPUT POWER SECTION

| | |
|------------------------------|--|
| Rectifier Power | 17.4kW max |
| Solar Power | 6 x 4.3kW peak |
| Voltage Range | 42 - 58V _{DC} ; 53.5V _{DC} nom |
| Battery MCB | 1 - 4 x 80 - 300A |
| LVD 300A | Option |
| Batt-capacity Expansion Cab. | 1200Ah |
| Max. Batt Expansion Cab. | 3600Ah |
| MCB | 18 pcs / 1 - 63A |
| PLD 150A | Option |

ENERGY MANAGEMENT SECTION

| | |
|------------------------|--|
| Energy Management | Configurable, depending on the OPEX saving targets |
| AC & Genset Management | Automatic, configurable |
| Energy Meter | AC and DC power |

GENERAL

| | |
|-------------------------|--|
| Ambient Temperature | -45 to +45 °C (-49 to + 113 °F) |
| Heat management options | Fan, Heat exchanger, Air condition, Hybrid |
| Safety | IEC/EN 60950 |
| EMC | EN 300 386 |
| Protection | ETS 300 019 Part 1-4 |
| Environment | RoHS |

* All specifications are subject to change without prior notice.