

RenE-InD 8700-48

Renewable Hybrid Telecom Site Solution



Delta's new RenE series InD RenE-InD 8700-48 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 InD RenE-InD 8700-48 is based on Delta Indoor cabinet.

The system includes automatic transfer switch (ATS) for AC-grid / Genset input, rectifiers (option), 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 8.7kW, 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



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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	16A _{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	3 feeds 50A
Voltage Range	60-150V _{DC}
Current Max / Pole	48 A _{DC}
Input Terminal	Circuit breakers
Input Protection	3 x 50A 2P
Transient Protection	1000 DC/2+V optional

OUTPUT POWER SECTION

Rectifier Power	8.7kW max
Solar Power	3 x 4.3kW peak
Voltage Range	42 - 58V _{DC} ; 53.5V _{DC} nom
Battery MCB	1 - 7 x 80 - 120A
LVD 300A	Option
Batt-capacity Basic Cabinet	380Ah
Batt-capacity Expansion Cab.	760Ah
Max. Batt Expansion Cab.	760Ah
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)
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.