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Samaarambh
Solar Power



The Power Behind Competitiveness

Delta Utility Scale Inverters

Grid-Tied Solar Inverter
DeICEN 1000



Product Features

- High Efficiency up to 98.6%
- Dynamic and Adaptive MPPT Algorithm
- Reactive Power Control (0.8 Lagging - 0.8 Leading)
- Powerful Black Box Diagnostics Tool
- Temperature Derating starts only after 55°C ambient temperature
- Make in India Product

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 **DELTA**
Smarter. Greener. Together.

Delta Utility Scale Inverters

Technical data DelCEN 1000

Model	DelCEN 1000
Topology	Transformerless

INPUT (DC)

Recommended Max. DC Power	1250 kWp
Max. Input Voltage	1000 V
DC Voltage Range	550 - 1000 V
Nominal MPPT Voltage range	610 - 930 V
Rated input current, continuous	1670 A
Isc PV absolute maximum	2100A
No. of independent MPPT	1
Input connection type	Bus Bar (10 Nos.)
DC disconnection Isolator	Yes (inbuilt)

OUTPUT (AC)

Rated Output Power	1000 kVA
Max. output power	1100kVA ⁴
Rated output current, Continuous	1445 A
Max. output current	1590 A
Nominal AC voltage	3 Ph, 400V
AC voltage range	400V ± 10% (360V ~ 440V)
Nominal Frequency	50 Hz
Frequency Range	50 Hz ± 10% (45Hz ~ 55Hz)
Power factor at rated power	Unity
Reactive Power (adjustable)	0.8 Lagging ~ 0.8 Leading
Total Harmonics Distortion (THD)	<3% at rated power
No. of conductors	3 Wire (L1, L2, L3)
Output Connection type	Bus Bar (4 runs per phase)
AC disconnection	ACB

EFFICIENCY

Maximum Efficiency	98.60%
Euro Efficiency	98.40%

PROTECTION

Input-side disconnection device	Yes, DC Isolator
Input-side Fuse protection (String Fuses - 10 Nos. per MW)	Yes (Positive only)
Ground fault monitoring / Grid monitoring	Yes
DC reverse polarity protection	Yes
DC over voltage / current limitation protection	Yes
AC short circuit protection	Yes
AC over voltage / current limitation protection	Yes
DC / AC side surge protection - inbuilt	SPD (Type I + II)
AC side disconnection device	ACB
Reactive Power at Night Time	Available (Optional) ³
LVRT (FRT)	Yes

COMMUNICATION

Field Bus Communication	MODBUS TCP IP
Local Monitoring / Display	10.1" LCD Display (HMI) - Touch Screen
Built-in Energy data logger	Yes
Emergency Power Off (EPO)	Yes
Analog Input	Yes (4 nos)
Digital Input	Yes (4 nos)

GENERAL DATA

Dimension (H/W/D)	2200 x 2200 x 935 mm
Weight (kg)	1500 kg
Operating temperature range	-10°C to +60°C (full power: -10°C to 55°C)
Relative Humidity	5~95%, non-condensing / non dripping
Operating elevation	<2000 m
Degree of Protection	IP54 (Indoor)
Noise level (typical)	75 dbA
Self consumption at night	<50 Watts
Cooling	Advanced Liquid Cooling
Auxiliary Power	Derived internally (no need for external power) ⁵

CERTIFICATION

Anti-islanding Protection	IEEE 1547
EMC	IEC 61000
Safety	IEC 62109-1,- 2:2011
Efficiency	IEC 61683:1999
MPPT Efficiency	BS EN 50530
Harmonics	IEEE 519
Environmental stress tests	IEC 60068
IP test	IEC 60529

WARRANTY

Standard Warranty Years	5
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Notes

1. If PV Module is Grounded (Negative / Positive Grounding), 2 nos of DelCEN 1000 can be hard paralleled for higher block size requirement. This can be further extended to have 4MW, 6MW and 8MW block sizes using multi-winding transformers.
2. Parallel operation is possible up to 4 Inverters provided the PV Module is not grounded (ungrounded system).
3. DelCEN 1000 comes with night time reactive power compensation capability of 1MVAR as optional.
4. Grid voltage should be within operational limit; Ambient temperature should be <40°C to achieve 1100kVA.
5. Grid Phase Sequence should be R-Y-B only

For Any Sales / Application Engineering Support, Please Contact :

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