



The power behind competitiveness

Delta Utility Scale Inverter

Grid-Tied Solar Inverter

C1000 Outdoor Rated Central Inverter



Product Features

- Peak efficiency 98.7%
- CQC_NB/T 32004 / Golden Sun LVRT certified
- Wide DC input voltage rang 520-1000V
- Compact size
- Reactive power control
- IP65 protection level
- 5" graphic LCD display
- 6 optional language display

Delta Central PV Inverter

High quality enclosure for outdoor environment

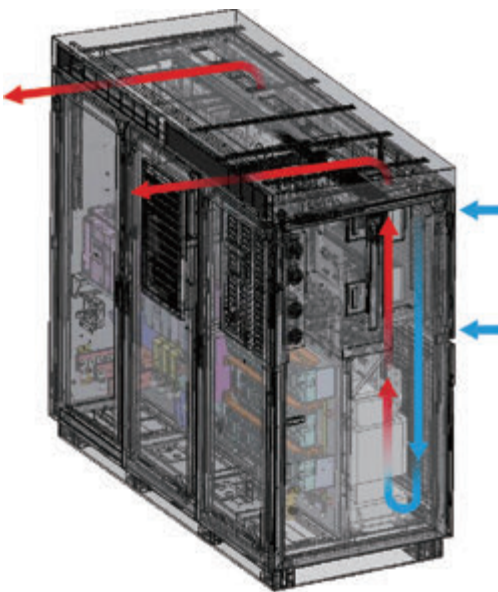
C1000 Central inverter is manufactured to meet high standard quality to maximize yields of every solar plant with peak efficiency up to 98.7%. IP65 protection level enclosure and corrosion resistant features ensure the inverter protection in both indoor and outdoor environment. Building an additional machine room for inverters is no longer necessary to save the cost for power plant construction.



High reliability & durability

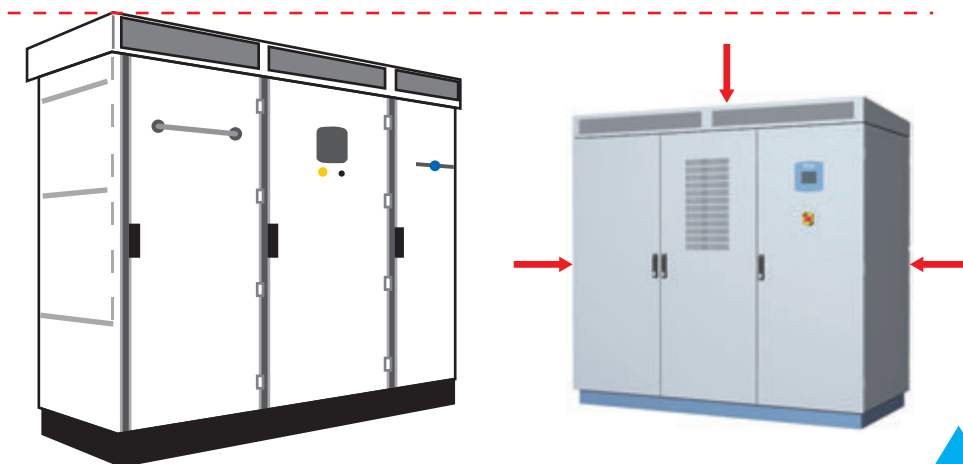
Delta C1000 central PV inverter is designed with fresh air flow circulation feature. This increases PV system performance by ensuring less power wasting due to unnecessary cooling. There are suction holes in the back of the enclosure to bring fresh air flow into the enclosure and lower down the system temperature. The hot air will flow out from top of the enclosure to create a perfect air flow circulation. The enclosure isolates all the electronic components into the front compartment with IP65 protection level to prevent any possible interferences from the air circulation or dusts from outside.

This protects all electronic components to maintain its performance, and also increase the durability and reliability of the inverter.



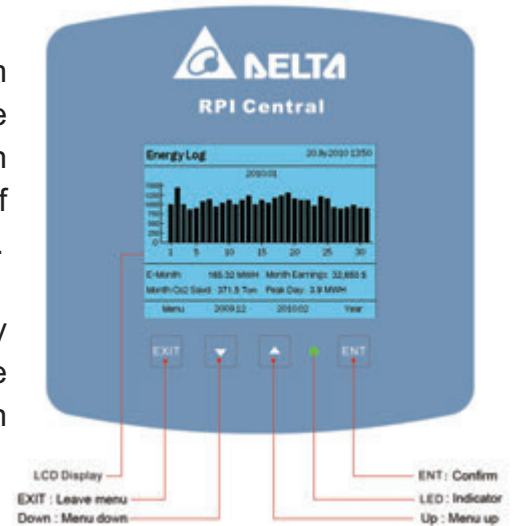
Compact size

Delta Central PV inverter design is based on transformerless topology which occupies only 2/3rd of space compared to other transformerless inverter in the market. The compact size of C1000 central inverter allows more flexibility to install in different location and save more construction cost.



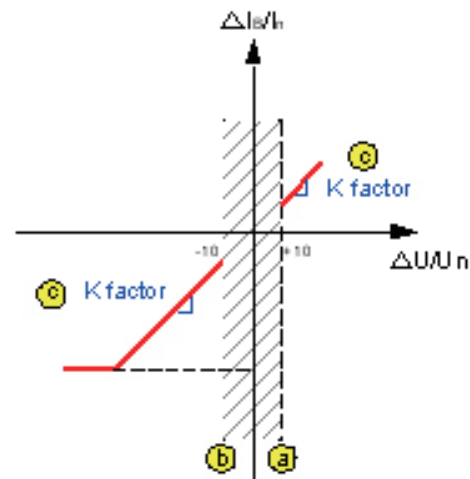
Smart communication & logger

5" LCD display on the inverter shows all the relevant system information and settings. Easy to use push button interface enables to access all important data stored inside the built-in data logger. Logger will automatically record information of electricity generated by solar system in several periods of time. Power generation data, every 5 minutes data will be saved for 1 day and every 15 minutes data will be saved for 1 month. Daily total power generation data will be saved in the system for one year. Monthly total power generation data will be saved in the system for 10 years.

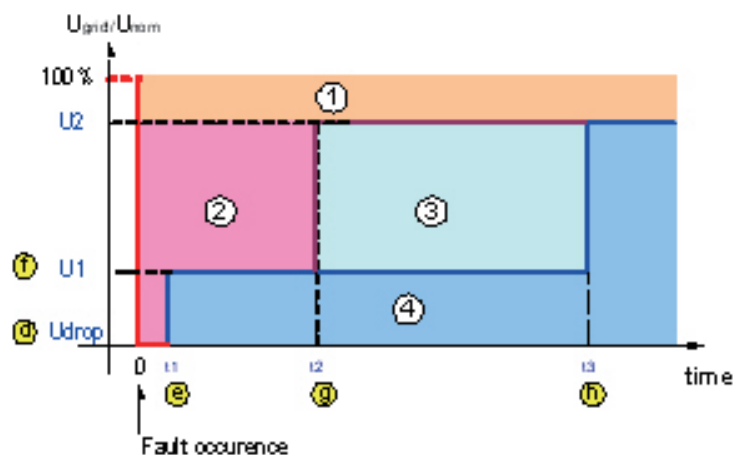


Easy LVRT configuration

FRT - 1/2		21 Jun 2010 13:50	
a	Dead band - Vh	[+10]	%
b	Dead band - Vl	[-10]	%
c	K factor	[2.0]	
d	Vdrop	[5]	%
e	t1	[150]	ms
f	U1	[20]	%
g	t2	[1.5]	s



FRT - 2/2		21 Jun 2010 13:50	
i	t3	[3.0]	s
l	Mode	[0N]	



Delta central inverter is certified with LVRT (Low Voltage Ride Through) regulation. LVRT manages the system to stay online during grid disturbances and also to support network voltage by feeding a reactive current into the network. When Delta central inverter is connecting to medium grid, LVRT function will be activated automatically with default settings. Site operator can easily access the LVRT configuration from LCD panel on the inverter to setup/change the configurations (such as voltage / time range) according to local regulation.

Delta Utility Scale Inverters

Technical Data - C1000

MODEL	C1000
Topology	Transformerless

INPUT (DC)

Max. Input Voltage	1100 Vdc
DC Voltage Range	520 ~ 1000 Vdc
Start-up Voltage	650 Vdc
MPPT Voltage Range	550 ~ 850 Vdc
MPP Voltage Range, Full Power	550 ~ 850 Vdc
Rated Input Current	2050 A
No. of Independent MPP	01 No
No. of DC Inputs	14 No's
Input Connection Type	Ring terminal lug (M8, Max.150mm ²)
DC Disconnection Isolator Protection	DC Breaker (250A/1000Vdc) Type 2 DC SPD

OUTPUT (AC)

Rated Output Power	1000 kVA
Rated Output Current	1650 A
Nominal AC voltage	3 Ph 350 Vac
AC Voltage Range	-10% ~ +10% (315 to 385 Vac)
Nominal Frequency	50/60 Hz
Frequency Range	±5 Hz
Power Factor at Rated Power	Unity
Reactive Power (Adjustable)	0.8 Ind ~ 0.8 cap
Total Harmonics Distortion (THD)	<3% at Rated Power
No. of Conductors	3P3W + PE, Ring Terminal lug (M12, Max. 240mm ²)
AC Disconnection Type Protection	ACB (2000A/690Vac) Type 2 AC SPD

EFFICIENCY

Maximum Efficiency	98.84%
Euro Efficiency	98.40%

PROTECTION

Input-side Disconnection Device	Yes, DC Breaker
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	Type II SPD
Output-Side Disconnection Device	Yes, AC Breaker (ACB)
LVRT (FRT)	Yes
PID Off-set Function	Yes

GENERAL DATA

Dimension (H/W/D)	1980 x 2100 x 950 mm
Weight (kg)	2030 kg
Operating Temperature Range	-25°C ~ 60°C (>50°C Derating)
Relative Humidity	5~95%, Non-Condensing
Operating Elevation	<3000 m
Degree of Protection	IP65 (Outdoor)
Noise Level (Typical)	80dB @ 1 m
Self Consumption at Night	<55 W
Cooling	Forced Fan Cooling

SAFETY / STANDARDS

Anti-Islanding Protection/ Grid Regulation	IEC 62116 / IEC 61727
EMC	EN 61000-2/4
Safety	IEC 62109-1/2
Efficiency	IEC 61683
Environmental Testing	IEC 60068-2
LVRT	GB/ T : 19964 : LVRT

COMMUNICATION

Communication	RS 485
Display	5" Graphic LCD
Built-in Energy Data Logger	Yes
Emergency Power Off (EPO)	Yes

WARRANTY

Standard Warranty Years	5
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Notes

1. Anti-PID function: C1000 has built-in Anti-PID function which can prevent/compensate the PID effect on PV modules. PV Modules Grounding is not allowed.
2. SVG (Night time reactive power): C1000 can generate reactive power at night to meet the utility's requirements to compensate/stabilize the grid.
3. Please refer to our Standard Warranty Terms and Conditions for details.

For Any Sales / Application Engineering Support, Please Contact:

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