

DCU series

DCU0500 / DCU0630 / DCU0750

/3.3 / PF-1

Central Grid-Tied PV Inverter

This range of PV inverters is suitable for large-scale, centralized PV power plants. The Deltron Central Unit DCU 1250 PV inverter is a central three-phase inverter that provides high efficiency and reliability. It rated output voltage of 400Vac. DCU Series cooling system has redundancy controls and is equipped with a one-stop intelligent data management platform to provide flexible and efficient solutions for industrial and commercial power stations, poverty alleviation power stations, and ground power stations. DCU 1250 series provides flexible two capacity options of 1000kW / 1250kW that fits large-scale solar distributed power plant



Max. PV voltage up to 1000V
Max. 10 DC inputs



Dustproof protection
Modular design for
Easy maintenance



Max. DC/AC ratio up to 1.5
Full power output under 55°C



AGC/AVC
Night SVG function
LVRT/HVRT/FRT function

Technical Specifications

MODEL	DCU0500	DCU0630	DCU0750
Input			
Max. DC input voltage	1000Vdc		
MPPT voltage range	450~850Vdc	520~850Vdc	500~850Vdc
Number of DC input	8	9	10
Max. input current	1200A	1400A	1500A
Output			
Rated output power	500kW	630kW	750kW
Max. output power	550kW	690kW	825kW
Rated output voltage	315Vac	360Vac	350Vac
Output voltage range	(1±10%)×Rated AC Voltage (adjustable ±5%,±10%,±15%,±20%)		
Grid frequency range	50 / 60Hz(±4.5Hz) (adjustable)		
Rated AC output current	916A	1010A	1237A
Max. AC output current	1008A	1111A	1360A
Power factor (cosφ)	1 (0.9 leading – 0.9 lagging) (adjustable)		
THDi	<3%		
System features			
Max. efficiency	98.7%		
Euro efficiency	98.5%		
MPPT efficiency	>99%		
Standby (night time) losses	<50W		
Cooling type	Forced air cooling		
Communication interface	RS485, External Ethernet (optional)		
Environment			
Operating temperature range	-40 C ~ +60 C (More than 55 C derating)		
Humidity range	0~95% (non-condensing)		
Altitude	3000m		
Noise level	<65dB		<70dB
Protection rating	IP21		
Protection devices			
AC leakage current fault protection	Yes		
LVRT	Yes		
Ground fault protection	Yes		
Anti-islanding protection	Yes		
DC overvoltage protection	Yes		
DC surge protection	Yes		
AC surge protection	Yes		
DC reverse-polarity protection	Yes		
Physical			
Dimensions W x D x H (mm)	1200x800x2000		1600x850x2000
Weight(kg)	1200	1300	1450

Specifications subject to change without prior notice.