

IDC Power Supply

TIDC-500/0.4



Product Overview

The technological heart of IDC power supply lies in its ability to decouple common electrical load current quality issues from sporadic grid voltage quality issues.



can ensure that the user voltage power supply uninterrupted



Able to build flexible loads to support two-way energy flows



Parallel operation greatly improves the reliability



AC/DC multi-port routing, supporting multi-scenario applications



Streamlined power supply architecture, enhancing user value



Diesel engine auxiliary function, with reliable starting



Model	TIDC-500/0.4
AC input	AC 380V(-10%~+10%)
Rated capacity	500kVA
Wiring mode	TN-S, three-phase five-wire
Operation frequency	50Hz±5Hz
Power factor	>0.98
Harmonic distortion	THDi<3%
Steady-state voltage error	<1%(three-phase balanced load)
Output Frequency	50±0.5Hz
THDv Phase voltage distortion THDv	<1%(linear load);<5%(nonlinear load, load current peak ratio CF> 3)
Peak factor	CF≥3:1
Three phase difference	120 ± 1 ° (balanced or unbalanced load)
100%Unbalance of Unbalanced Load Voltage	<1%
No-load voltage stabilization accuracy	±2%
Overload capability	1.05~ 1.1 times the rated load, lmin to bypass; higher than 1.5 times the rated load, switch to bypass immediately
Number of parallel machines	Max. 5 parallel
Efficiency	≥ 98%(load rate ≤ 30%), ≥ 99%(load rate> 50%)
DC voltage range	230V~780V
Other parameters	
Operating Temperature	-5°C~+40°C
Storage and transportation temperature	-25°C~+55°C
Relative humidity	≤90%RH, non-condensing
Highest Altitude	4000 m (over 2000 m, it will operate in derating)
Noise	<65dB
Display mode	LCD + Indicator
Communication Interface	RS485/Modbus/Electrical Master Protocol
Protection Grade	IP20