

**DELTA ELECTRONICS INDIA PVT. LTD.**DESCRIPTION :
Electrical Specification

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MODEL NO. : DelPCS 1000 kVA

Rating	Rated Power	1000 kVA
	Max Output Power	1100 kVA, subjected to conditions
	Rated output current	1445 A
	Max output current	1590 A, subjected to conditions
	Rated AC voltage	230V/400 V
	Rated DC voltage	720V
Input AC	Main Input Voltage	230/400V
	Voltage range (Configurable)	±10 %
	Grid Frequency	50 Hz
	Frequency Range (configurable)	45-55 Hz
Output AC	Rated AC output voltage	230/400V
	Rated AC output current	1445 A
	Max. Output current	1590 A, subjected to conditions.
	Waveform	Sine wave
	Frequency	50Hz ± 1%
	Voltage harmonic distortion	<3%(linear load)
	power factor	0.6(lagging) to 1
	Voltage regulation	<2%(linear load)
	Overload capacity	>110%-60 s >130%-Overcurrent trip
Voltage symmetry with balanced load	<1.5% (Resistive load)	
DC Input	Rated DC voltage	720V
	Voltage range	650-1000 V
	Rated DC Current	1570 A
	Input connection type	Bus Bar(10 nos)
	DC disconnection Isolator	Yes (inbuilt)
Battery Charger	Rated AC input	230/400V
	Rated Charging power	1MW
	Charging Method	CC-CV
	Battery max charging voltage	830V
	Battery max charging current	1570 A

On-grid performance	Current THD	<3% at rated power
	Reactive power compensation	Yes (+1 to -1 PF)
Efficiency	On-grid efficiency	>99%
	Maximum efficiency(Off-grid)	98.6%
	European Efficiency(Off-grid)	98.4%
Protection	DC over voltage limitation protection	Yes
	DC side current limitation protection	Yes
	AC overvoltage protection	Yes
	AC overcurrent protection	Yes
	Load side short circuit protection	Yes
	DC side protection device (10 Nos)	Fuse
	DC side disconnection device	Yes (DC Isolator)
	DC/AC surge protection- inbuilt	SPD(Type I + II)
	AC side disconnection device	ACB
	Black start capability	Yes with external AC power
Communication	Local Monitoring / Display	10.1" LCD Display (HMI)
	Built-in Energy data logger	Yes
	Emergency Power Off (EPO)	Yes
	Analog Input	4 no
	Digital Input	4 no
	Field bus communication	MODBUS TCP IP
General Data	Dimension (H/W/D)	2200 x 2200 x 935 (mm ³)
	Weight	1200 kg
	Operating temperature range	-10°C to +60°C
	Relative Humidity	5~95%, non-condensing
	Operating elevation	<2000 m
	Degree of Protection	IP54
	Pollution degree	PD3
	Wet location classification	Wet location
	Protective class	Class I
	Over voltage category	OVC III Mains
	Environmental category	Outdoor with canopy
	Noise level (typical)	<70dbs
Cooling	Advanced liquid Cooling	

Auxiliary Power Requirement	Auxiliary Supply Source	AC
	Auxiliary consumption	2.5 kVA
	Standby Time Power Consumption	<50 W
	Auxiliary Power (3phase or 1 phase)	3 phase
	Auxiliary supply Voltage	400 V
	Allowable voltage variations	±10%
Compliance to standards	EMC	IEC 61000-4-2, 3, 4, 6 &
	Safety	IEC 62109-1:2010, IEC
	Efficiency	IEC 61683:1999
	Harmonics	IEEE 519
	Environmental stress tests	IEC 60068-2-1, 2, 14 &
	IP test	IEC 60529



Authorised Channel Partner
 Email: solar.support@filatech.in | Ph: 0124-4064798