

DC UPS System Overview

The DC UPS is designed to provide disturbance-free, uninterrupted DC power for critical loads. It accepts either single-phase or three-phase AC input, and utilizes a battery bank to supply output during power outages and AC input blackouts, lasting for up to 30 minutes.

KEY FEATURES

- ✓ The high-frequency switching technique, with optimized size and weight of magnetic components (transformers and chokes).
- ✓ AC input supply is available from two feeders; a preferred feeder can be selected via contactor.
- ✓ The LINE FILTER functions to ensure the equipment meets EMI/EMC compliance.
- ✓ Appropriate LED indications and audible alarms enhance user-friendliness.
- ✓ A post-regulator, which prevents variations in battery voltage arising from the charge/discharge cycle from reaching the load, can be provided.
- ✓ Optimum battery charging sequence ensures safety and long life.

INPUT	DETAILS
AC Voltage	Single Phase/ Three Phase
Voltage Tolerance	+/- 10%
Frequency	50 Hz (60 Hz)
Frequency Tolerance	+/- 5%
Input Power Factor	>0.95 at rated load

Input current - THD	<=5%
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OUTPUT	DETAILS
DC voltage (nominal)	24 / 48 / 110 / 125 / 220 / 400V
Voltage stability	1% in float mode & 1.5% for parallel rectifiers
ripple	1 %RMS, in float mode, battery
rectifier	IGBT based
filter	Input side line filter

BATTERY	DETAILS
Type	Valve Regulated Lead Acid (VRLA) or Nickel Cadmium or Lead Acid

ENCLOSURE	DETAILS
Design	Applied for IECEx Zone 1 Ex d IIB + H2
Material	Stainless steel (SS316L), Carbon steel (mild steel) or Aluminium
External IP protection	as per IEC 60529



Explosion-proof DC UPS system – Ready for rugged industrial environments



TRU cum DCDB Panel- For Safe Area

* more on demand