HYDRA T3

SERIES

10-200 kVA

ONLINE UPS

THREE LEVEL

VFI
TYPE
UPS ONLINE

TOWER

PF=0.9
POWER FACTOR

Service
SERVICE

HIGHLIGHTS

True Three Level Rectifier and Inverter Technology

Ultra High Output Galvanic Isolation Transformer Embedded

Robust and Reliable Design

Highest Reliability with Embedded Isolation Transformer

- HYDRA T3 Series is a true VFI on-line double conversion, three-phase UPS system with Innovative 3 Level Technology and engineered to provide high level of energy efficiency and reliable and robust protection for most demanding industrial and medical environments.

- Three level inverter and rectifier technology and with embedded isolation transformer makes HYDRA T3 Series one of the most reliable systems for data security and other critical applications.

Compact Design

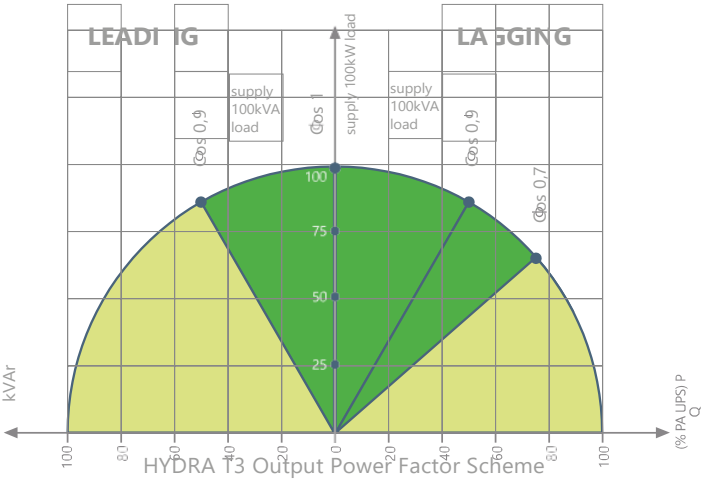
- Designed with an Integrated transformer ensuring galvanic isolation on the output for ultimate safe installation.
- Easy to install and service and can be integrated into harsh commercial and industrial environments.
- Compact footprint and matching battery cabinets.

Low Total Cost of Ownership

- Less energy consumption to supply the loads thanks to high efficiency.
- Reduced energy loss.
- Reduced electricity usage and air conditioning requirements.
- Reduction in operating cost of UPS.
- IGBT based power factor correction technology provides input power factor close to 1 (≥ 0,99). The high input power leads to reduced electricity pay-out, minimizes cable, switchboard, fuse and generator requirements, thus reducing investment cost.
- Low input current total harmonic distortion (THDi) less than%3 helps to avoid the disturbance and expensive harmonic filters.
- Small footprint and easy maintenance

High Output Power Factor 0.9

- Output power factor of(1KVA=0.9KW) rateprovides up to25% more active power than a traditional UPS.
- Suitable for modern power supply application with unit or capacitive power factor (e.g. new servers generation).
- No reduction in active power from 0,9 leading to 0,9 lagging.



HYDRA T3 Output Power Factor Scheme

Maximum Availability

- Parallel configuration up to 8 units per redundancy (N+1) and power increase.
- Loop connection helps the UPS system to continue the operation when the connection cable is interrupted.

Standard Electrical Features

- Output Galvanic Isolation Transformer Embedded
- Dual Input
- Common Battery
- Frontal Access for Input/Output Cabling
- Backfeed Protection
- Cold Start (Optional)
- Advanced Battery Management
- Short Circuit and Overload Protection
- Parallel Ready
- Redundant Power Supply
- Power Walk-in for Progressive Rectifier Start-up when the Mains is Restored
- Battery Temperature Sensor
- Static & Manual Bypass Operation

Advanced Communication Features

- 500 Real Time Event Log with Detailed Parameters
- User Friendly Multilingual 320x240 Graphic Display Provides Operation Information
- Monitoring and Shutdown Software
- RS232 Serial and RS485 Ports
- Modbus RTU (Optional)
- 2 Communication Slots
- Remote Emergency Power Off (Optional)
- Remote Display Panel (Optional)
- Dry Contact (Optional)
- SNMP (Optional)
- Profibus (Optional)

Flexibility

- Optional IP31, IP41, Protection degree for harsh environments.
- Optional tropicalization and anti-corrosion protection for electronic boards.
- Optional temperature sensor for external battery cabinets for extended runtimes.
- External battery cabinets for different sizes of batteries to provide extended runtimes.
- Adaptability to the mains without neutral.

GPE
GENERAL POWER EQUIPMENT

MODEL											
Capacity	**10**kVA	**15**kVA	**20**kVA	**30**kVA	**40**kVA	**60**kVA	**80**kVA	**100**kVA	**120**kVA	**160**kVA	**200**kVA
Power Watt	**9** kW	**13.5** kW	**18** kW	**27** kW	**36** kW	**54** kW	**72** kW	**90** kW	**108** kW	**144** kW	**180** kW
INPUT											
Voltage Range	380/400/415 VAC 3 Phase +N (Optional 220/380 VAC-15% +22% 3P+N+PE)										
Power Factor	At Full Load >0.99										
Frequency Range	45 - 65 Hz (Selectable)										
Total Harmonic Distortion (THDi)	<3%										
OUTPUT											
Voltage Range	380/400/415 VAC 3 Phase + N										
Voltage Tolerance	Static ±1, Dynamic ±3										
Efficiency	94.5%										
Frequency Tolerance	50Hz / 60Hz ±0,01% (Battery Mode)										
THD (THDv)	Linear Load <2%										
	Non-Linear Load <5%										
Crest Factor (CF)	3:1										
Overload Capacity*	At 125% Load 10min, at 150% Load 1min										
BATTERY											
Quantity (12V DC VRLA)	32										
Charge Capacity	12,5% of Active Power (Nominal 0,1 C10, Adjustable)										
ENVIRONMENTAL											
Operating Temperature	For UPS 0°C/+40°C For Battery +15°C/+25°C										
Storage Temperature	For UPS -15°C/+45°C For Battery 0°C/+30°C										
Protection Class	IP20										
Humidity	0-95% Without Condensation										
Altitude	<1000m, Correction Factor 1. <2000m, Correction Factor >0.92, <3000m; Correction Factor >0.84										
Noise Level	<53 dBA		<55 dBA		<60 dBA		<65 dBA			<72 dBA	
COMMUNICATION											
Communication Port	RS232 Standard, RS485 and SNMP Adapter Option										
STANDARDS											
Quality	ISO 9001, ISO 14001										
Performance	EN62040-3 (VFI-SS-111,)										
EMC/LVD	EN62040 2, EN62040 1, EN60950,										
DIMENSIONS & WEIGHT											
Cabinet Dimensions (mm)	Width	600		600		650		700		780	
	Depth	650		700		790		830		900	
	Height	1400		1450		1500		1550		1650	
Net Weight (kg)	200	250	310	360	390	430	475	525	550	650	760
Packaging Dimensions (mm)	Width	680		680		730		780		860	
	Depth	730		780		870		910		980	
	Height	1500		1550		1600		1650		1750	
Gross Weight (kg)	250	300	375	410	450	500	525	580	600	700	810

* under certain conditions.

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GENERAL POWER EQUIPMENT
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