



Product brochure

Vertiv™ Liebert® ITA2 UPS 5-40 kVA

Flexible power protection for rack or tower installation



In today's dynamic world, having basic power protection is not enough for enterprises. Business continuity is even more vital with digital trends constantly emerging and transforming the way you do business. In your critical system, you simply cannot afford downtime or waste time recovering these systems after a disruption. What you need is a robust, highly-efficient, reliable UPS system which offers perennial, round-the-clock protection for diverse applications.

Our solution

The Vertiv™ Liebert® ITA2 is a fully-digital, highly reliable, doubleconversion UPS solution that provides clean and consistent power. This highly efficient solution is ideal for various deployments, including IT racks, network closets, automation control systems, and precision instruments to small sized control rooms among other edge applications.

- Cutting-edge design enables seamless integration into various ecosystems
- Tailored for global deployment in a low carbon, compact footprint

The ultimate level of engineering and dynamics that have gone beyond the development of this innovative, next-generation product facilitate top-notch availability and excellent performance at low ownership costs, giving you ultimate peace of mind.

Vertiv™ Liebert® ITA2 5-40 kVA



5-10 kVA



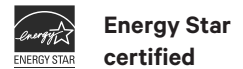
16-40 kVA

Application areas

- Edge networks
- Data centers
- Automation industries
- Server farms
- Workstations
- Telecom

Vertiv™ Liebert® ITA2

Robust power protection solution in compact package



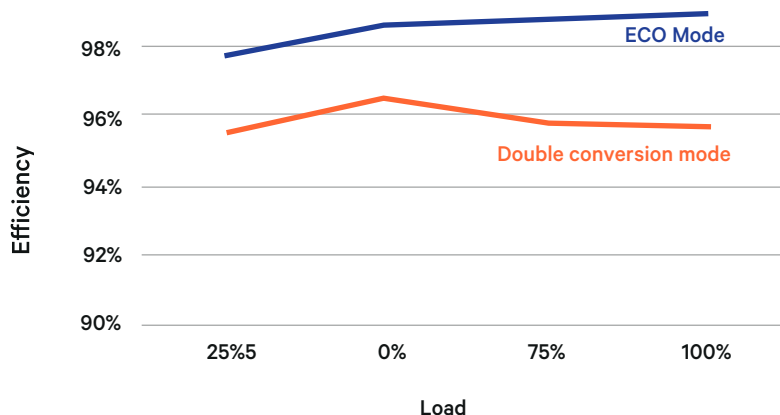


Key features

- Robust structure with cutting edge channelized airflow design
- Wide input voltage range, making it immune to grid interference
- Rack-tower design for installation flexibility
- Able to deliver both three-phase and singlephase output¹
- 0.99 input power factor for better grid or generator compatibility
- Powerful charging capability for minimum battery recharging time
- Programmable output outlets/ terminals with cascade protection to protect key devices during heavy load¹
- Integrated communication port for remote monitoring
- Easy to install, repair, and maintain
- Compliance with seismic conduction and vehicle carrying test
- Gravity sense LCD display
- Turnkey dust-resistant design with ability to operate under high ambient temperature of up to 50 °C

The most efficient UPS

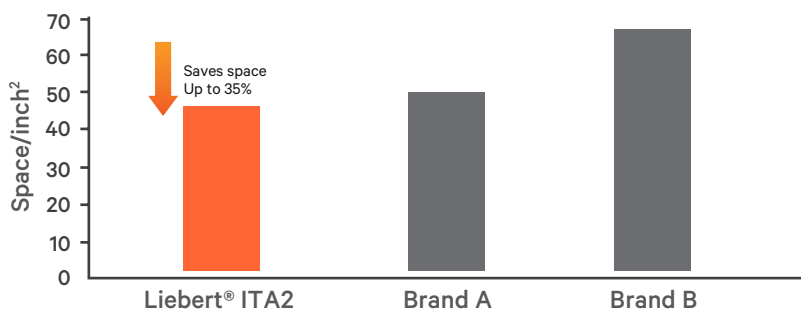
Vertiv™ Liebert® ITA2 offers best-in-class efficiency of up to 96.5% in double conversion mode over a wide range of load conditions, resulting in significant OPEX cost savings. Liebert ITA2's integrated ECO mode of operation further enhances efficiency of up to 99%.

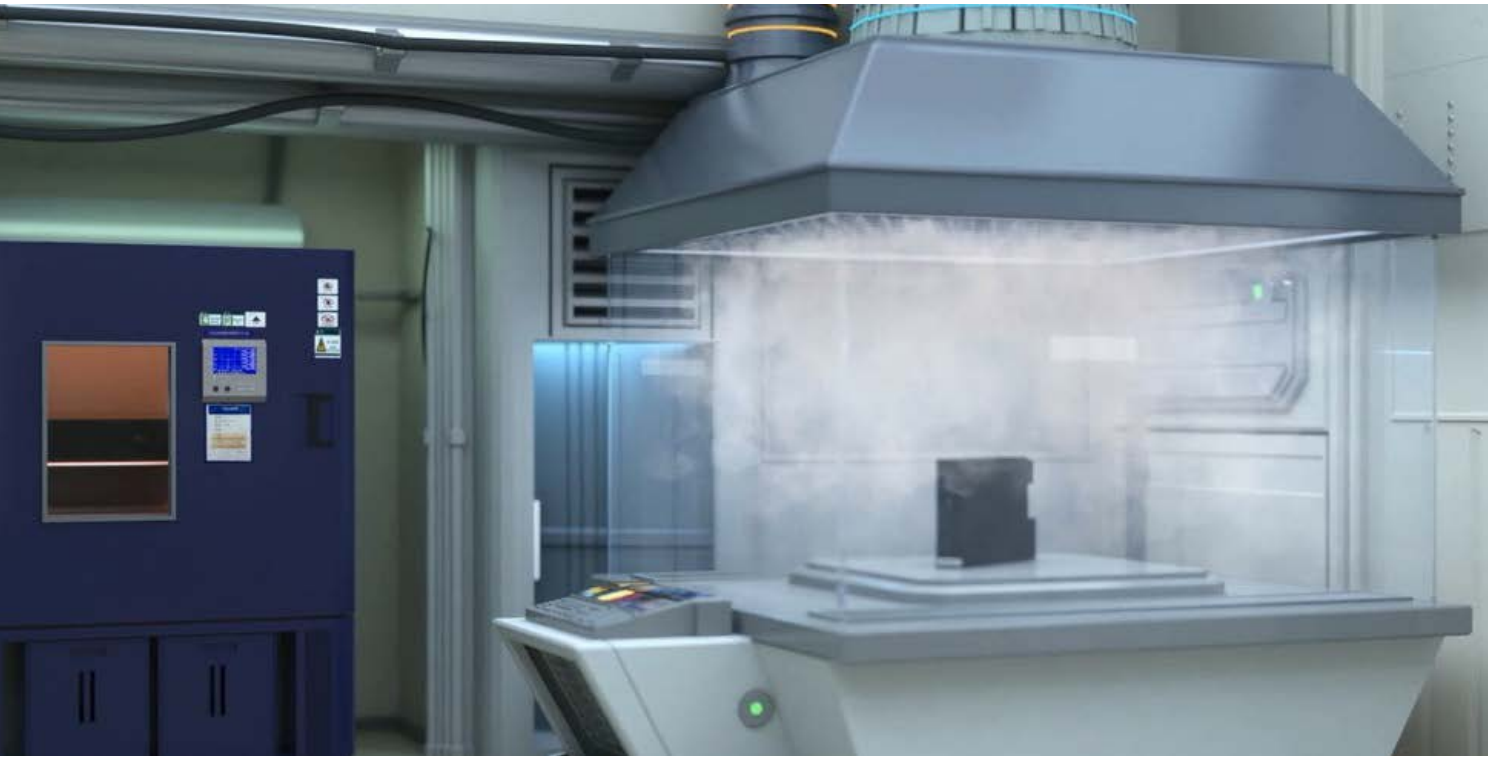


The most flexible UPS

- Optimized modules minimizes the amount of used space in the rack
- Support base makes it convenient and stable to place on a floor
- Adjustable display panel ensures readability and ease of use
- Configuration easily extends to batteries and POD cabinet

The most compact UPS





Dust-resistant design

Available in different wattage variations, Vertiv™ Liebert® ITA2 is ideal in the edge of networks, light industrial applications and data centers, easily blending into any virtualized environment and providing comprehensive power protection at reduced operating costs.

Reliability in a compact footprint

- Fully-digital control with high output voltage precision
- Manages all the nine power problems including sagging, spikes, and fluctuations
- Built-in intelligent communication card for remote monitoring and management
- Built-in-power charger for fast charging reduces the battery charging time
- Prolonged backup time through cascaded connection
- Quality-tested for 1000 hours for extreme durability and tolerance even in stringent conditions

High availability

Early warning of UPS system status

Multiple audible and visual alarms instantly alert for critical issues.

Periodic battery testing

Provides automatic and manual self-diagnostic battery testing for peace of mind.

Power-factor correction

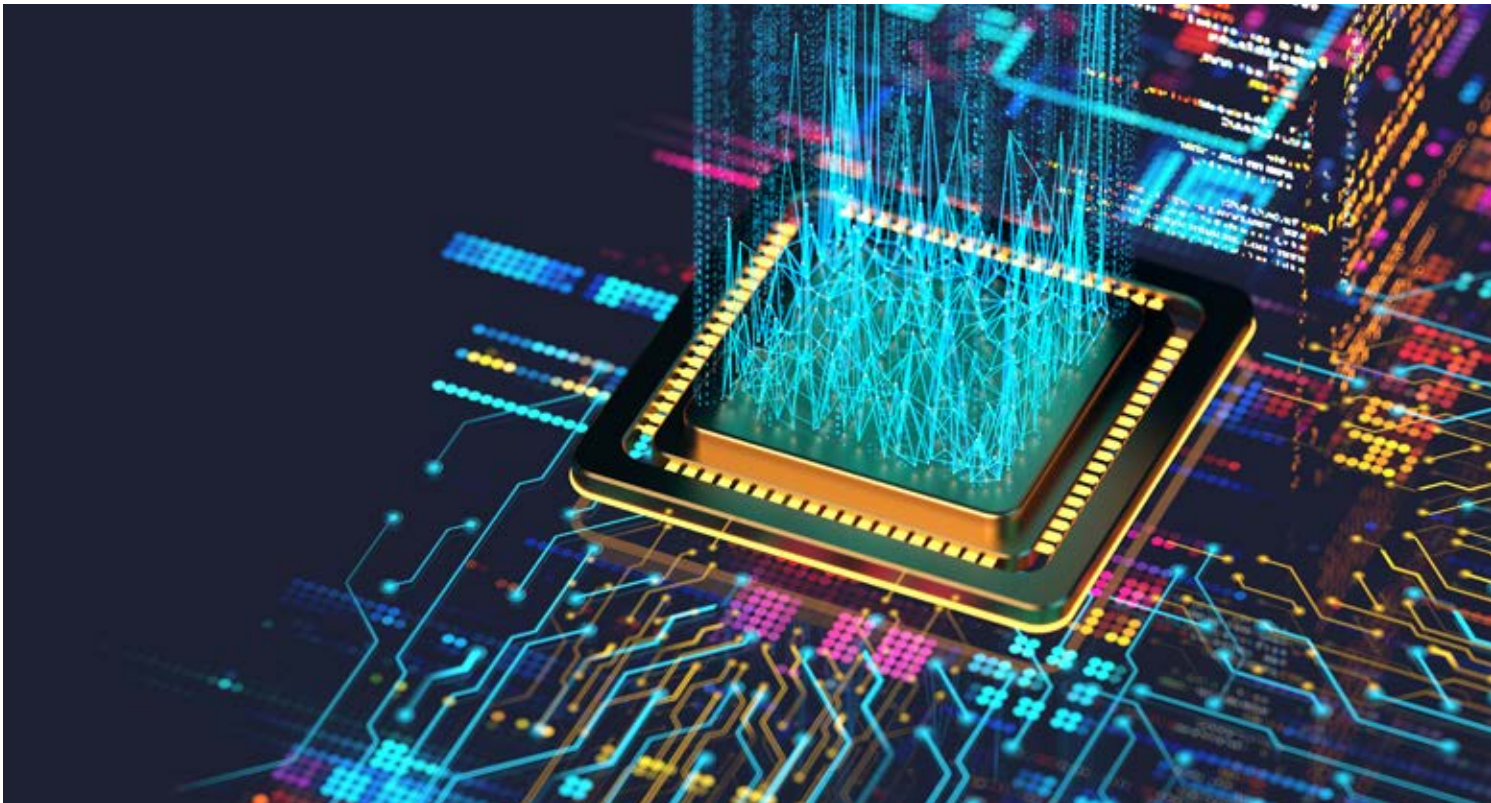
Prevents noise, harmonics, and distortion from being transferred to connected loads or fed back to the utility.

Lightning and surge protection

The transient voltage surge suppression circuitry inside the Vertiv™ Liebert® ITA2 provides additional protection for the connected equipment.

Wide input voltage window

Prolongs battery life by allowing the UPS to maximize the use of utility power before being transferred to the battery when



Intelligent communications

The Vertiv™ Liebert® ITA2 offers an intuitive control panel, network connectivity communications card, and optional software monitoring, all designed to ensure visibility, control and peace of mind for manned or unmanned locations. You can even monitor key environmental and room conditions.

Vertiv™ Power Insight

Vertiv™ Power Insight is a web-based solution for managing and monitoring up to 100 Vertiv™ UPSs and rPDUs that provides a quick way to safely shutdown IT devices based on user-configured parameters. It helps improve availability and simplifies the monitoring and management of mission-critical IT equipment. Additionally, if VMware is your virtualization platform of choice, you can benefit from the seamless integration offered by the Vertiv Power Insight vCenter Plugin.



Vertiv™ Power Insight

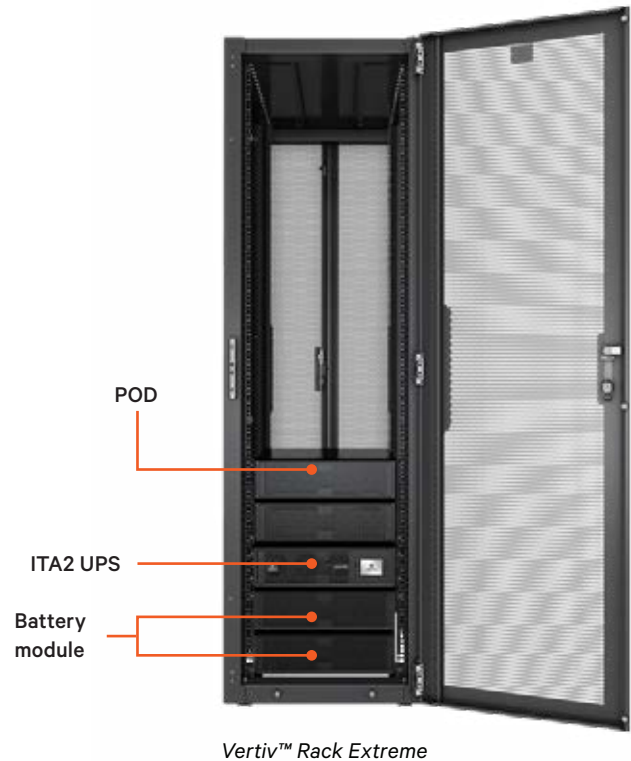
The vCenter Plugin provides single-pane-of-glass monitoring and management of UPS and rPDU infrastructure directly within the vCenter Management Platform.

It can also be configured to trigger automatic Virtual Machine (VM) shutdown or migration (using vMotion) based on alarms or events communicated by Vertiv Power Insight.

POD - Optional accessories

The Liebert POD maintenance bypass and output distribution unit ensures continuous uptime when your critical system cannot afford any power loss without power, even for scheduled UPS maintenance.

It allows you to manually transfer connected equipment to utility power via a maintenance bypass switch, permitting scheduled service or UPS replacement without shutting down connected equipment.



Battery backup table

UPS Model	Battery modules	Backup time in minutes									
		5kVA	4.5kVA	4kVA	3.5kVA	3kVA	2.5kVA	2kVA	1.5kVA	1kVA	0.5kVA
5kVA	1	6.8	7.8	9.2	11.2	13.9	17.9	24.3	35.6	58	122.4
	2	18	20.9	24.6	29.7	36.5	46	59.7	81.7	126.4	278.8
	3	31.9	36.6	42.6	50.2	60.2	74.1	94.5	128.3	207	435.7
	4	46.3	52.6	60.3	70.2	83.5	102.2	130.3	182.7	287.6	592.5
	5	60.4	68.1	77.8	90.3	107	131.4	171.6	237.1	368.2	749.3
	6	74.4	83.7	95.4	110.4	131.5	164.6	212.9	291.5	448.8	906.1

UPS Model	Battery modules	Backup time in minutes									
		6kVA	5.4kVA	4.8kVA	4.2kVA	3.6kVA	3kVA	2.4kVA	1.8kVA	1.2kVA	0.6kVA
6kVA	1	5.1	6.1	7.1	8.6	10.8	13.9	19	28	46.9	101
	2	14	16.1	19.1	23	28.6	36.5	48.4	67	103.9	228.2
	3	24.7	28.7	33.6	40	48.5	60.2	77.6	105.6	167.6	359.7
	4	36.7	42	48.7	57	68	83.5	106.9	147.8	235.1	491.2
	5	48.8	55.3	63.3	73.6	87.5	107	138.3	193.5	302.6	622.8
	6	60.5	68.2	77.9	90.4	107.1	131.5	172.9	239.1	370.1	754.3



UPS Model	Battery modules	Backup time in minutes									
		10kVA	9kVA	8kVA	7kVA	6kVA	5kVA	4kVA	3kVA	2kVA	1kVA
10kVA	2	4.8	5.5	7.4	10.2	14	18	24.6	36.5	59.7	126.4
	3	8.8	10.2	13.6	18.5	24.7	31.9	42.6	60.2	94.5	207
	4	13.7	15.9	21.1	28.4	36.7	46.3	60.3	83.5	130.3	287.6
	5	19.4	22.4	29.7	39.3	48.8	60.4	77.8	107	171.6	368.2
	6	25.8	29.6	38.6	50.6	60.5	74.4	95.4	131.5	212.9	448.8

UPS Model	Battery modules	Backup time in minutes									
		16kVA	14.4kVA	12.8kVA	11.2kVA	9.6kVA	8kVA	6.4kVA	4.8kVA	3.2kVA	1.6kVA
16kVA	4	9.5	11	13	15.6	19.4	24.8	33.8	48.7	77.7	169.6
	6	16.8	19.6	23.1	27.8	34	42.9	56.2	77.9	121.7	271.9
	8	25.3	29.3	34.4	40.8	49.2	60.7	78.1	107.3	173.2	374.1
	10	34.4	39.5	45.9	53.8	63.9	78.4	100.3	138.9	225.2	476.3
	12	43.6	49.7	57.2	66.5	78.7	96.1	122.4	173.7	277.2	578.6

UPS Model	Battery modules	Backup time in minutes									
		20kVA	18kVA	16kVA	14kVA	12kVA	10kVA	8kVA	6kVA	4kVA	2kVA
20kVA	4	6.9	8	9.5	11.5	14.3	18.3	24.8	36.7	60.3	130.3
	6	12.3	14.3	16.8	20.4	25.3	32.3	42.9	60.5	95.4	212.9
	8	18.5	21.5	25.3	30.5	37.5	46.8	60.7	84	131.8	295.5
	10	25.3	29.3	34.4	41	49.7	61.1	78.4	107.6	173.4	378.1
	12	32.6	37.5	43.6	51.4	61.6	75.2	96.1	132.3	215.1	460.7

UPS Model	Battery modules	Backup time in minutes									
		30kVA	27kVA	24kVA	21kVA	18kVA	15kVA	12kVA	9kVA	6kVA	3kVA
30kVA	4	3.0	3.5	4.0	5.0	6.5	8.5	11.5	17.5	31.0	71.5
	6	5.5	6.5	7.5	9.5	11.5	15.0	21.0	31.0	51.5	111.5
	8	8.5	10.0	11.5	14.0	17.5	23.0	31.0	45.0	72.0	159.5
	10	11.5	13.5	16.0	19.5	24.5	31.0	41.5	58.5	92.5	207.0
	12	15.0	17.5	21.0	25.5	31.5	39.5	52.0	72.0	112.5	255.0
	14	19.0	22.0	26.0	31.5	38.0	48.0	62.0	85.5	136.5	302.5
	16	23.0	26.5	31.5	37.0	45.0	56.0	72.0	99.5	161.0	350.5
	18	27.0	31.5	36.5	43.0	52.0	64.0	82.5	113.0	185.0	398.0
	20	31.5	36.0	41.5	49.0	58.5	72.0	92.5	129.0	209.0	446.0

Minimum quantity of VRLA EBC works with ITA2 30 & 40kVA is 4xEBC which means 2 strings.

UPS Model	Battery modules	Backup time in minutes									
		40kVA	36kVA	32kVA	28kVA	24kVA	20kVA	16kVA	12kVA	8kVA	4kVA
40kVA	4	1.5	2.0	2.5	3.0	4.0	5.5	7.5	11.5	21.0	51.5
	6	3.5	4.0	5.0	6.0	7.5	10.0	14.0	21.0	36.5	81.5
	8	5.5	6.5	7.5	9.5	11.5	15.0	21.0	31.0	52.0	112.0
	10	7.5	9.0	10.5	13.0	16.0	21.0	28.5	41.5	67.0	148.0
	12	10.0	11.5	14.0	17.0	21.0	27.0	36.5	52.0	82.0	184.0
	14	12.5	14.5	17.5	21.0	26.0	33.5	44.5	62.0	97.5	220.0
	16	15.0	18.0	21.0	25.5	31.5	39.5	52.0	72.0	113.0	256.0
	18	18.0	21.0	25.0	30.0	36.5	46.0	59.5	82.5	131.0	292.0
	20	21.0	24.5	28.5	34.5	41.5	52.0	67.0	92.5	149.0	328.0

Note: Battery autonomy times and 5 year design life are based on operation at 25°C. Approximate autonomy times are based on fully charged batteries and can vary +/-5% due to battery manufacturing variances.

Technical specifications

Nominal ratings (kVA)	5	6	10	16	20	30	40
Long backup model	ITA-05k00AL1102P00	IITA-06k00AL1102P00	ITA-10k00ALA102P00	ITA-16k00AL3A02P00	ITA-20k00AL3A02P00	ITA-30k00AL3302P00	ITA-40k00AL3302P00
Part number	01202670	01202671	01202672	01202682	01202683	01202660	01202897
Input parameters							
Nominal input voltage (v)	220/230/240 VAC 1-Phase, 2 Wire		220/230/240 VAC 1-Phase, 2 Wire; 380/400/415 VA 3-Phase, 4 Wire		380/400/415 VAC 3-Phase, 4 Wire		
Input voltage range (v)	176-288 VAC at full load; 100-176 VAC at linear derating; 100 VAC at half load						
Nominal input frequency (Hz)	50/60						
Input frequency range (Hz)	40-70						
Input power factor (kW/kVA) ²	0.99						
Current THD at full linear load ²	<3						
Battery							
Battery blocks per string	12*, 15, 16, 17, 18, 19, 20			24*, 30, 32, 34, 36, 38, 40		32-40	24-40**
Battery charger max. power (A)	5		8		13		
Battery option	P/C : ITA-BCI0020K01 (built-in battery module of 16 block X 12 V X 9 AH) Battery cabinet Dimensions in rack arrangement - 430 (W) x 750 (D) x 85 (H)					Only external battery cabinet	
Output							
Nominal output voltage (V)	220/230/240 VAC (1-phase)			220/230/240 VAC (1-Phase), 380/400/415 VAC (3-Phase)		380/400/415 VAC (3-Phase)	
Nominal output frequency (Hz)	50/60						
Rated power factor (kW/kVA)	Unity						
Voltage harmonic distortion (%)	<2% for Linear loads & <5% for Non-linear loads						
Overload capacity @ at 25 °c				105~125%, 10 min; 125~150%, 1 min; >150%, 200 ms			105~125%, 10 min; 125~150%, 1 min; 150~200%, 5 s



Efficiency

Online mode efficiency	Up to 95.5%	Up to 95.8%	Up to 96.2%	Up to 96.5%
ECO mode efficiency	Up to 99%			

Dimensions and weight

Dimensions (W x D x H) in mm-Rack	430 x 480 x 85	430 x 590 x 85	430 x 600 x 130	430 x 730 x 130	
Mounted arrangement					
Weight (kg)	11	15	23	23.5	30

General

Nosie at 1 m (dBA)	<55	<58	<60	<63
Operating temperature (°C)	0 ~ 50*			
Relative humidity (%RH)	5 ~ 95, non-condensing			
Altitude (m)	3000 without derating			
General and safety requirements for UPS	IEC/EN 62040-1			
EMC requirements for UPS	IEC/EN 62040-2			
UPS classification according to IEC 62040-3	VFI-SS-111			

Note: Specification are subject to change without any further notification

*Dearting conditions apply ** 24-26-28-30 with de-rating (1) Not Available in 30 & 40 kVA (2) Conditions apply



