

JOVYFLEX

PRODUCT LEAFLET



The new modular UPS series JOVYFLEX offers an extremely flexible solution for power supplies from 20 kVA up to 210 kVA. The UPS systems are based on 20 or 30 kVA power modules as well as a static switch 120/180 or 210 kVA / kW. The UPS modules impress with efficient power control, dynamic transitions without switchover times and a high efficiency of 95%. The modular UPS systems JOVYFLEX are the first choice especially for use in data centers.

ONLINE UPS

As an online system (double converter, continuous converter), JOVYFLEX UPS systems reliably and economically protect against mains failures or disturbances of any kind.

HIGH EFFICIENCY AND FLEXIBILITY BY MODULAR DESIGN

The three cabinet types JOVYFLEX 120, JOVYFLEX 180 and JOVYFLEX 210 are available for the realization of a wide variety of power supply solutions. Each one is equipped with the appropriate static switch and can accommodate a different number of modules of 20 kVA / kW or 30 kVA / kW.

SAFE PROTECTION AT UNSECURE AND INSTABLE NETWORKS

The large AC input voltage range makes the Wäertsilä JOVYFLEX UPS system particularly suitable for unstable

networks. The three-phase UPS systems protect the connected loads safely and reliably against operational failures or damage caused by poor network quality. Without static switches, the UPS systems can also be used as frequency converters. Depending on the number of modules, a corresponding power increase or redundancy can be built up.

100% AVAILABILITY BY HOT-SWAP

The modules of the JOVYFLEX UPS systems can be exchanged under operating conditions without observing special procedures (hot-swap). Thus, service enhancements or service inserts can be implemented in a time-saving and efficient manner during ongoing operation of the system.

The series JOVYFLEX is a cost-effective alternative to our modular UPS series JOVYCUBE, which has been specially developed for shipbuilding and use under extreme environmental conditions.

Autonomy times in dependency to the power of the UPS System		20 kVA	30 kVA	40 kVA	60 kVA	80 kVA	90 kVA	100 kVA	120 kVA	150 kVA	180 kVA	210 kVA
Article number	Termination	Autonomy times [min]										
1.159.020	1B10ES072009	11	-	-	-	-	-	-	-	-	-	-
1.159.021	1B10ES108009	19	11	8	-	-	-	-	-	-	-	-
1.159.022	1B10ES072012	15	-	-	-	-	-	-	-	-	-	-
1.159.023	1B11ES080018	29	18	-	-	-	-	-	-	-	-	-
1.159.024	2B11ES072026	43	25	16	-	-	-	-	-	-	-	-
1.159.025	2B11ES072044	107	65	45	24	15	13	-	-	-	-	-
1.159.026	3B11ES108026	76	43	28	16	-	-	-	-	-	-	-
1.159.027	3B11ES108044	150	93	58	30	21	17	14	-	-	-	-
1.159.028	2B13E064070	-	-	-	-	-	-	-	11	8	6	-
1.159.029	2B13E064100	246	148	107	61	43	37	32	26	18	13	9

TECHNICAL DATA

	JOVYFLEX 120 (80)	JOVYFLEX 180 (120)	JOVYFLEX 210 (140)
Power	20 - 120 kVA	20-180 kVA	20-210 kVA
Leistung	20 kVA / 20 kW	20 kVA / 20 kW	20 kVA / 20 kW
Power per module	30 kVA / 30 kW	30 kVA / 30 kW	30 kVA / 30 kW
Power Static Switch	120 kVA	180 kVA	210 kVA
Number of possible modules	1 - 4	1 - 6	1 - 7
Dimensions cabinet W x H x D [mm]	600x1475x1100	600x1475x1100	600x2010x1100
Dimensions module W x H x D [mm]	483x170x692	483x170x692	483x170x692
Weight UPS cabinet without modules	100 kg	208 kg	307 kg
with 20 kVA modules	188 kg	237 kg	457 kg
with 30 kVA modules	335 kg	415 kg	549 kg
Weight modules	21,5 kg (20 kVA) 34,5 kg (30 kVA)	21,5 kg (20 kVA) 34,5 kg (30 kVA)	21,5 kg (20 kVA) 34,5 kg (30 kVA)

INPUT

Nominal voltage	3x380 V/220 V, 3x400 V/230 V, 3x415 V/240 V (TN-C mains is pre-adjustable)
Tolerance of the input voltage	3 x 305/176 VAC - 3 x 478/276 VAC at >70% load 3 x 208/120 VAC - 3 x 478/276 VAC at <70% load
Frequency	40 up to 70 Hz
Power factor	≥0,99 (50% up to 100% load)

OUTPUT

Nominal voltage	3x380 V/220 V, 3x400 V/230 V, 3x415 V/240 V (TN-C mains is pre-adjustable)
Tolerance range	<2% at static load, <4% at dynamic load (10% - 100% - 10%)
Overload behaviour	105% - 110% for 60 minutes 111% - 125% for 10 minutes 126% - 150% for 1 minute >150% for 200 ms
Frequency	50 or 60 Hz (automatical or adjustable)

DC INTERMEDIATE CIRCUIT

Number of battery cells	192 (minimal) 216 (nominal) 240 (maximum)
Temperature compensation	5mV per °C each cell (option)
Battery charging current	6A per module

COMMUNICATION

Optional available: Communication via SNMP, MODBUS, Relaycard

MODULAR ONLINE UPS SYSTEM

VFI / double converter
Maximum safety for connected consumers

HIGH EFFICIENCY SAVES ENERGY COSTS

Highest output power
(KVA = KW)

EFFICIENT PERFORMANCE CONTROL

by intelligent, integrated control

HIGHEST FLEXIBILITY

by 20 kVA or 30 kVA modules

PREVIEW OF THE BATTERY CAPACITY AND RESERVE TIME**HOT-SWAPPABLE**

Exchange of modules during operation

STARTABLE WITHOUT NETWORK

Cold start is possible without problems