

<b>General Inspection plan</b>  Title Power electronics [UPS-units]	Document KBE IP – 120.1
	Issue 2
	Date 2020-04-20
	Supersedes Issue 1

Inspection according to codes below					
<u>Inspection Specification</u> (1st letter) A: Routine 100% Insp. S: Sample Inspection T: Type Inspection		<u>Inspection performed and documented by</u> (2nd letter) E: Manufacturer D: Supplier B: Purchaser		<u>Inspection supervised by</u> (3rd letter) B: Purchaser C: Inspector engaged by purchaser D: Supplier	
				<u>Documentation</u> (4th letter) R: Technical Report P: Inspection Record I: Certificate	
Examination Procedures		Codes	Inspection Procedure	Inspection Record	Deviation Report/Remark
Type Inspection					
T1	Power efficiency Note 1	TE-R			
T2	Temperature rise test Note 1	TE-R			
T3	Unbalance load test Note 1	TE-R			
T4	Output voltage unbalance Note 1	TE-R			
T5	Current division in parallel Note 1	TE-R			
T6	Rated stored energy time, battery test Note 1	TE-R			
T7	Rated restored energy time Note 1	TE-R			
T8	Battery ripple current Note 1	TE-R			
T9	Overload capability test Note 1	TE-R			
T10	Short-Circuit current capability Note 1	TE-R			
T11	Short-Circuit test Note 1	TE-R			
T12	Output overvoltage Note 1	TE-R			
T13					
T14					
Notes					
1. Test according to applicable IEC 62040 standard.					

Examination Procedures		Codes	Inspection Procedure	Inspection Record	Deviation Report/Remark
<b>Type Inspection</b>					
T16	Periodic output voltage modulation Note 1	TE-R			
T17	Frequency modulation Note 1	TE-R			
T18	Harmonic components Note 1	TE-R			
T19	Audible noise Note 1	TE-R			
T20	Vibration and shock test Note 1	TE-R			
T21	Seismic qualification KBE EP-147	TE-R			
T22	EMC verification KBE EP-153	TE-R			
T23	Type Inspection certification KBE EP-180	TE-I			
T24	Protective earth continuity KBE EP-150	TE-R			
T25					
<b>Notes</b>					
1. Test according to applicable IEC 62040 standard.					

Examination Procedures		Codes	Inspection Procedure	Inspection Record	Deviation Report/Remark
<b>Routine Inspection</b>					
R1	Visual Inspection KBE EP-101	AEBP			
R2	Visual inspection KBE EP-190	AE-P			
R3	Protective earth continuity KBE EP-150	AEBP			
R4	Interconnection cable check Note 1	AEBR			
R5	Voltage test KBE EP-102	AEBR			
R6	Insulation test KBE EP-114	AEBR			
R7	Light load test Note 1	AEBR			
R8	Checking of auxiliary devices Note 1	AEBR			
R9	Synchronization test Note 1	AEBR			
R10	AC input failure test Note 1	AEBR			
R11	AC input return test Note 1	AEBR			
R12	Simulation of parallel redundant UPS-fault Note 1	AEBR			
R13	Transfer test Note 1	AEBR			
R14	Full load test Note 1	AEBR			
R15	Restart Note 1	AEBR			
R16	Earth fault test Note 1	AEBR			
R17	Quality and Identity certification KBE EP-180	AE-I			
R18	Delivery Release Inspection / FAT Note 2, 3	AEBR			
R19	Site Acceptance Test (SAT) Note 3	AEBR			
R20					
<b>Notes</b> <ol style="list-style-type: none"> <li>Test according to applicable IEC 62040 standard.</li> <li>Inspection witnessed by Purchaser before Delivery (Shipping) Release in accordance with KBE 100.</li> <li>FAT and SAT performed according to procedures subject to prior review and approval by the Purchaser.</li> </ol>					