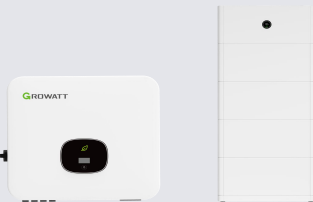
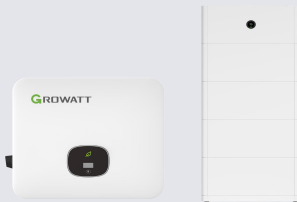
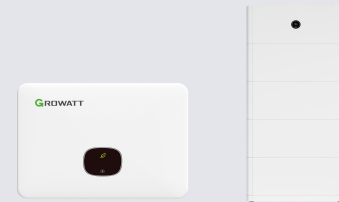
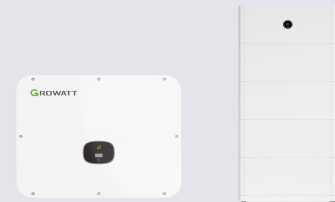


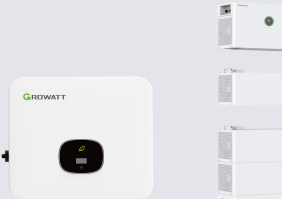
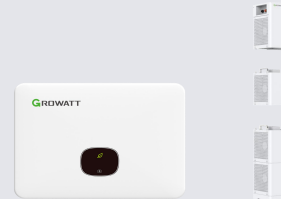
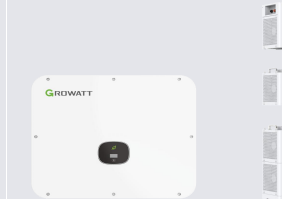
GROWATT ENERGY STORAGE CONFIGURATION QUICK CHECK LIST

Battery Ready Energy Storage System with APX HV 1.0 Battery System

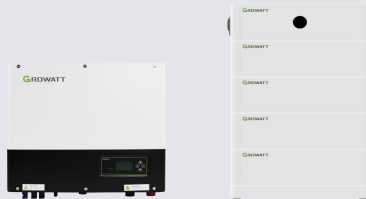
System Model	APX HV 1.0 + MIN 2500-6000TL-XH/XH2	APX HV 1.0 + MOD 3000-10000TL3-XH(BP)	APX HV 1.0 + MOD 3-15KTL3-HU	APX HV 1.0 + MID 11-30KTL3-XH/MID 8-15KTL3-XH L	APX HV 1.0 + MID 29.9-50K-HU (Not for Belgium)
System					
Battery capacity range	5kWh-30kWh	5kWh-30kWh	5kWh-30kWh	5kWh-60kWh*	5kWh-60kWh*
Battery module quantity	1-6 units in 1 cluster	1-6 units in 1 cluster	1-6 units in 1 cluster	1-6 units in 1 cluster, support 2 clusters	1-6 units in 1 cluster, support 2 clusters
BMS/Power module	APX 55027-P0(BASE)	APX 98034-P2(BASE)			
Battery module	APX 5.0P-B1				
Cable from battery to inverter	Included in the package of P0/P2				
Cable from battery to battery (for 1 cluster in 2 columns)	APX 5.0P-B1 Parallel extension cable				
Cable from battery to battery (for 2 clusters)	/			APX Cascading Communication Cable	
Wall mounted bracket	APX Battery Wall Bracket				
Battery base	The P0/P2 package already contains 1pc APX Battery Base 2 columns installation requires an additional base				
Battery configuration formula	Floor standing installation 1 cluster installation (N=1,2,3,4) N pcs * 【APX 5.0P-B1】 +1 pc 【APX 55027-P0(BASE)】 1 cluster in 2 columns installation (N=5,6) N pcs * 【APX 5.0P-B1】 +1 pc 【APX 55027-P0(BASE)】 + 1 pc 【APX Battery Base】 +1 pc 【APX 5.0P-B1 Parallel extension cable】 Wall mounting installation (1 column ≤ 4pcs) Replace 【APX Battery Base】 with 【APX Battery Wall Bracket】	Floor standing installation 1 cluster installation (N=1,2,3,4) N pcs * 【APX 5.0P-B1】 +1 pc 【APX 98034-P2(BASE)】 1 cluster in 2 columns installation (N=5,6) N pcs * 【APX 5.0P-B1】 +1 pc 【APX 98034-P2(BASE)】 + 1 pc 【APX Battery Base】 + 1 pc 【APX 5.0P-B1 Parallel extension cable】 Wall mounting installation (1 column ≤ 4pcs) Replace 【APX Battery Base】 with 【APX Battery Wall Bracket】	Floor standing installation 1 cluster installation (N=1,2,3,4) N pcs * 【APX 5.0P-B1】 +1 pc 【APX 98034-P2(BASE)】 1 cluster in 2 columns installation (N=5,6) N pcs * 【APX 5.0P-B1】 +1 pc 【APX 98034-P2(BASE)】 + 1 pc 【APX Battery Base】 + 1 pc 【APX 5.0P-B1 Parallel extension cable】 2 clusters with separate columns (N=7,8) N pcs * 【APX 5.0P-B1】 +2 pcs 【APX 98034-P2(BASE)】 +1 pc 【APX Cascading Communication Cable】 2 clusters with 2 columns respectively (N=9,10,11,12) N pcs * 【APX 5.0P-B1】 +2 pcs 【APX 98034-P2(BASE)】 + 2 pcs 【APX Battery Base】 + 2 pcs 【APX 5.0P-B1 Parallel extension cable】 + 1 pc 【APX Cascading Communication Cable】 Wall mounting installation (1 column ≤ 4pcs) Replace 【APX Battery Base】 with 【APX Battery Wall Bracket】		
Datalogger (Single inverter)	ShineWilan-X2, Shine4G-X				
Meter	SPM-C, SPM-CT-E Retrofitting: TPM-CT-E(100A), TPM-CT-E(250A)	TPM-C, TPM-CT-E(100A), TPM-CT-E(250A) Retrofitting: TPM-6CT-C(100A), TPM-6CT-C(250A)			
Backup box	SYN 50-XH-10	SYN 100-XH-30	Backup function integrated	SYN 100-XH-30 (not for MID-XH L)	Backup function integrated

GROWATT ENERGY STORAGE CONFIGURATION QUICK CHECK LIST

Battery Ready Energy Storage System with APX HV 2.0 Battery System

System Model	APX HV 2.0 + MIN 2500-6000TL-XH/XH2	APX HV 2.0 + MOD 3000-10000TL3-XH(BP)	APX HV 2.0 + MOD 3-15KTL3-HU	APX HV 2.0 + MID 11-30KTL3-XH/MID 8-15KTL3-XH L	APX HV 2.0 + MID 29.9-50K-HU (Not for Belgium)
System					
Battery capacity range	5kWh-30kWh	5kWh-30kWh	5kWh-30kWh	5kWh-60kWh	5kWh-90kWh
Master module	APX 5.0M-B3 (5kWh)				
Battery module	APX 5.0P-B3 (5kWh)				
Module quantity	1 * APX 5.0M-B3 0-5 * APX 5.0P-B3	1 * APX 5.0M-B3 0-5 * APX 5.0P-B3	1 * APX 5.0M-B3 0-5 * APX 5.0P-B3	1-2 * APX 5.0M-B3 0-10 * APX 5.0P-B3	1-3 * APX 5.0M-B3 0-15 * APX 5.0P-B3
Cable from battery to inverter	Included in the package of APX 5.0M-B3				
Module from battery to battery (for 1 cluster in 2 columns)	Under development				
Cable from battery to battery (for 2 clusters)	/			APX M-S3 Cascading Communication Cable	
Wall mounted bracket	Under development				
Battery base	The APX 5.0M-B3 package already contains 1pc APX Battery Base 2 columns installation is still under development				
Battery configuration formula	Floor standing installation 1 cluster installation (N=0,1,2,3,4,5) 1 pc * 【APX 5.0M-B3】 + N pcs 【APX 5.0P-B3】 *2 columns installation and wall mounting installation are still under development			Floor standing installation 1 cluster installation (N=0,1,2,3,4,5) 1 pc * 【APX 5.0M-B3】 + N pcs 【APX 5.0P-B3】 2 clusters installation (N=6,7,8,9,10) 2 pcs * 【APX 5.0M-B3】 + N pcs 【APX 5.0P-B3】 + 1pc 【APX M-S3 Cascading Communication Cable】 3 clusters installation (N=11,12,13,14,15) - MID-HU 3 pcs * 【APX 5.0M-B3】 + N pcs 【APX 5.0P-B3】 + 2pcs 【APX M-S3 Cascading Communication Cable】 *2 columns installation and wall mounting installation are still under development	
Datalogger (Single inverter)	ShineWlan-X2, Shine4G-X				
Meter	SPM-C, SPM-CT-E Retrofitting: TPM-CT-E(100A), TPM-CT-E(250A)	TPM-C, TPM-CT-E(100A), TPM-CT-E(250A) Retrofitting: TPM-6CT-C(100A), TPM-6CT-C(250A)			
Backup box	SYN 50-XH-10	SYN 100-XH-30	Backup function integrated	SYN 100-XH-30 (not for MID-XH L)	Backup function integrated

GROWATT ENERGY STORAGE CONFIGURATION QUICK CHECK LIST

ARK HV Three-phase Energy Storage System		Battery Ready Energy Storage System with ARK XH	
System Model	ARK HV + SPH 4000-10000TL3 BH-UP	ARK XH + MIN 2500-6000TL-XH/XH2	ARK XH + MOD 3000-10000TL3-XH
System			
Battery capacity range	7.68kWh-25.6kWh	5.12kWh-17.92kWh	7.68kWh-25.6kWh
Battery module quantity	3-10 units	2-7 units	3-10 units
BMS/Power module	HVC 60050-C2 (Base and Cable)	BDC 95045-A1 (Base and Cable)	
Battery module	ARK 2.5H-A2		
Cable from battery to inverter	Included in the HVC 60050-C2 (Base and Cable) package	Included in the BDC 95045-A1 (Base and Cable) package	
Cable from battery to battery (for 1 cluster in 2 columns)	ARK 2.5H-A1 Series cable		
Wall mounted bracket	ARK Battery Wall Bracket		
Battery base	The HVC 60050-C2 (Base and Cable) package already contains 1pc ARK Battery Base 2 columns installation requires an additional order	The BDC 95045-A1 (Base and Cable) package already contains 1pc ARK Battery Base 2 columns installation requires an additional order	
Battery configuration formula	Floor standing installation 1 cluster installation (N=3,4,5,6) N pcs * 【ARK 2.5H-A2】 +1 pc 【HVC 60050-C2(Base and Cable)】 1 cluster in 2 columns installation (N=7,8,9,10) N pcs * 【ARK 2.5H-A2】 +1 pc 【HVC 60050-C2(Base and Cable)】 +1 pc 【ARK Battery Base】 + 1 pc 【ARK 2.5H-A1 Series cable】 Wall mounting installation (N = 3, 4) N pcs * 【ARK 2.5H-A2】 +1 pc 【HVC 60050-C2 (Base and Cable)】 + (N+1) pcs 【ARK Battery Wall Bracket】	Floor standing installation 1 cluster installation (N=2,3,4,5,6) N pcs * 【ARK 2.5H-A2】 +1 pc 【BDC 95045-A1 (Base and Cable)】 1 cluster in 2 columns installation (N=7) N pcs * 【ARK 2.5H-A2】 +1 pc 【BDC 95045-A1 (Base and Cable)】 +1 pc 【ARK Battery Base】 +1 pc 【ARK 2.5H-A1 Series cable】 Wall mounting installation (N ≤ 4) N pcs * 【ARK 2.5H-A2】 +1 pc 【BDC 95045-A1 (Base and Cable)】 + (N+1) pcs 【ARK Battery Wall Bracket】	Floor standing installation 1 cluster installation (N=3,4,5,6) N pcs * 【ARK 2.5H-A2】 +1 pc 【BDC 95045-A1(Base and Cable)】 1 cluster in 2 columns installation (N=7,8,9,10) N pcs * 【ARK 2.5H-A2】 +1 pc 【BDC 95045-A1(Base and Cable)】 +1 pc 【ARK Battery Base】 +1 pc 【ARK 2.5H-A1 Series cable】 Wall mounting installation (N ≤ 4) N pcs * 【ARK 2.5H-A2】 +1 pc 【BDC 95045-A1 (Base and Cable)】 + (N+1) pcs 【ARK Battery Wall Bracket】
Datalogger (Single inverter)	ShineWlan-X2, Shine4G-X		
Meter	TPM-C, TPM-CT-E(100A), TPM-CT-E(250A)	SPM-C, SPM-CT-E	TPM-C, TPM-CT-E(100A), TPM-CT-E(250A)
Backup box	Backup function integrated	SYN 50-XH-10	No backup function

GROWATT ENERGY STORAGE CONFIGURATION QUICK CHECK LIST

ARK LV/ALP LV/AXE LV/HOPE LV Single/Three-phase Energy Storage System

System Model	ARK LV/ALP LV/AXE LV + SPH 3000-6000TL BL-UP / SPF 3500-6000ES / SPE 8-12K / WIT 4-15K-HU HOPE LV + SPF 3500-6000ES / SPE 8-12K / WIT 4-15K-HU			
System				
Battery capacity range	2.56kWh-25.6kWh per cluster	5kWh-40kWh per cluster	5kWh-50kWh per cluster	16kWh-768kWh
Battery module quantity	1-10 units per cluster	1-8 units per cluster	1-10 units per cluster	1-48 units
BMS/Power module	/	/	/	/
Battery module	ARK 2.5L-A2	ALP 5.0L-E2	AXE 5.0L-C1	Hope 16.0LM-A1
Cable from battery to inverter	ARK 2.5L-A1 Cable	ALP 5.0L Cable	AXE 5.0L Accessory Package (Cable and Base)	/
Cable from battery to battery (for 1 cluster in 2 columns)	ARK 2.5L-A1 parallel cable	ALP 5.0L Parallel Cable	/	/
Wall mounted bracket	ARK Battery Wall Bracket (Included in the package of ARK 2.5L-A2)	/	/	/
Battery base	ARK Battery Base	ALP Base	AXE 5.0L Accessory Package (Cable and Base)	/
Battery configuration formula	Floor standing installation 1 cluster installation N pcs * 【ARK 2.5L-A2】 +1 pc 【ARK 2.5L-A1 Cable】 +1 pcs 【ARK Battery Base】 1 cluster in 2 columns installation N pcs * 【ARK 2.5L-A2】 +1 pc 【ARK 2.5L-A1 Cable】 +2 pcs 【ARK Battery Base】 +1 pc 【ARK 2.5L-A1 parallel cable】 Wall mounting installation (1 column ≤ 4pcs) N pcs * 【ARK 2.5L-A2】 +1 pc 【ARK 2.5L-A1 Cable】 +N pcs 【ARK Battery Wall Bracket】	Floor standing installation 1 cluster installation (N=1,2,3,4,5) N pcs * 【ALP 5.0L-E2】 +1 pc 【ALP 5.0L Base and Cable】 1 cluster in 2 columns installation (N=6,7,8) N pcs * 【ALP 5.0L-E2】 +2 pcs 【ALP 5.0L Base and Cable】 +1 pc 【ALP 5.0L Parallel Cable】	Floor standing installation 1 cluster installation N pcs * 【AXE 5.0L-C1】 +1 pc 【AXE 5.0L Accessory Package】	Floor standing installation N pcs * 【Hope 16.0LM-A1】
Datalogger (Single inverter)	SPH 3000-6000TL BL-UP: ShineWilan-X2, Shine4G-X SPF 3500-6000ES and SPE 8-12K (1pc WIFI-F Pro included in the package) WIT 4-15K-HU: ShineWilan-X2			
Meter	Single-phase system: SPM-C, SPM-CT-E for SPH BL-UP (1pc CT included in the package of SPH BL-UP) Three-phase system: TPM-CT-E(100A), TPM-CT-E(250A) for WIT 4-15K-HU (1pc CT included in the package of WIT 4-15K-HU)			
Backup box	SPH 3000-6000TL BL-UP and WIT 4-15K-HU: Backup function integrated			