



GROWATT ENERGY STORAGE CONFIGURATION QUICK CHECK LIST

Single Phase Energy Storage System with ARK LV						Three Phase Energy Storage System with ARK HV
System						
System Model	ARK LV + Single Phase SPA/SPH/SPH-UP	AXE LV+ Single Phase SPA/SPH/SPH-UP	ALP LV+ Single Phase SPA/SPH/SPH-UP	ML33RTA+ Single Phase SPA/SPH/SPH-UP	GBLI 6532+ Single Phase SPA/SPH/SPH-UP	ARK HV + Three-phase SPH-UP/SPA-UP
Battery capacity range	2.5kWh-25.6kWh	5kWh-50kWh	5kWh-40kWh	3.3kWh-19.8kWh	6.5kWh-26kWh	7.68kWh-25.6kWh
Matching battery pack quantity	1-10 pcs in parallel	1-10 pcs in parallel	1-8 pcs in parallel	1-6 pcs in parallel	1-4 pcs in parallel	3-10 pcs in series
Grid (Single Phase/Three Phase)	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Three Phase
BMS/Power module model	NA	NA	NA	NA	NA	HVC 60050-A1
Battery module model	ARK 2.5L-A1	AXE 5.0L-C1	ALP 5.0L-E2-EU	ML33RTA	GBLI 6532	ARK 2.5H-A1
Name of the cable from battery to Inverter	ARK 2.5L-A1 Cable	AXE 5.0L Cable	ALP 5.0L Cable	ML33RTA Cable	GBLI 6532 Cable	ARK 2.5H-A1 cable
Name of the cable from battery to battery (for 1 cluster in 2 columns)	ARK 2.5L-A1 Parallel Cable	NA	ALP 5.0L Parallel Cable	ML33RTA Parallel Cable X2 ML33RTA Parallel Cable X3	GBLI 6532 Parallel Cable X2 ARK Hub (>2 pcs)	ARK 2.5H-A1 Series cable
Wall mounted bracket	ARK Battery Wall Bracket	NA	Included in the package of the battery pack	Included in the package of the battery pack	Included in the package of the battery pack	ARK Battery Wall Bracket
Battery base model	ARK Battery Base	AXE 5.0L Base	APX Battery Base	NA	NA	ARK Battery Base
Battery operation temperature	-10 ~ 50 Optimum working temperature: 0 ~ 50	0 ~ 50°C	-10 ~ 50°C	-10 ~ 50°C	-10 ~ 50°C	-10 ~ 50 Optimum working temperature: 0 ~ 50
Battery configuration formula	<p>Wall mounted installation (N<=4)N pcs * [ARK 2.5L-A1] + 1pcs [ARK-2.5L-A1 Cable New] + Npcs * [ARK Battery Wall Bracket]</p> <p>Floor standing installation 1 cluster installation N pcs * [ARK 2.5L-A1] + 1 pcs [ARK-2.5L-A1 Cable New] + 1 pcs [ARK Battery Base]</p> <p>1 cluster in 2 columns installation N pcs * [ARK 2.5L-A1] + 1 pcs [ARK-2.5L-A1 Cable New] + 1 pcs [ARK-2.5L-A1 Parallel Cable New] + 2 pcs [ARK Battery Base]</p>	<p>Floor standing installation 1 cluster installation N pcs * [AXE 5.0L] + 1 pcs [AXE 5.0L Cable] + 1 pcs [AXE 5.0L Base]</p>	<p>Wall mounted installation 1 cluster installation (N<=5)N pcs * [ALP 5.0L] + 1 pcs [ALP 5.0L Cable] + 1 pcs [APX Base]</p> <p>1 cluster in 2 columns installation (N>=5)N pcs * [ALP 5.0L] + 1 pcs [ALP 5.0L Cable] + 1 pcs [ALP 5.0L Parallel Cable] + 2 pcs [APX Base]</p>	<p>Wall mounted installation / Floor standing installation for 1 ML33RTA battery 1 pcs * [ML33RTA] + 1 pcs [ML33RTA cable]</p> <p>for 2 ML33RTA in parallel 2 pcs * [ML33RTA] + 1 pcs [ML33RTA parallel cable X2]</p> <p>for 3 ML33RTA in parallel 3 pcs * [ML33RTA] + 1 pcs [ML33RTA parallel cable X3]</p> <p>for 4 ML33RTA in parallel 4 pcs * [ML33RTA] + 2 pcs [ML33RTA batteries parallel cable X2]</p> <p>for 5 ML33RTA in parallel 5 pcs * [ML33RTA] + 1 pcs [ML33RTA batteries parallel cable X2] + 1 pcs [ML33RTA batteries parallel cable X3]</p> <p>for 6 ML33RTA in parallel 6 pcs * [ML33RTA] + 2 pcs [ML33RTA batteries parallel cable X3]</p>	<p>Wall mounted installation / Wall mounted installation 1 pcs * [GBLI6532] + 1 pcs [GBLI 6532 Cable]</p> <p>2 pcs * [GBLI6532] + 1 pcs [GBLI 6532 Parallel Cable X2]</p> <p>3 pcs * [GBLI6532] + 1 pcs [GBLI 6532 Parallel Cable X2] + 1 pcs [GBLI 6532 Cable] + 1 pcs [ARK Hub]</p> <p>4 pcs * [GBLI6532] + 2 pcs [GBLI 6532 Parallel Cable X2] + 1 pcs [ARK Hub]</p>	<p>Wall mounted installation:(3<=N<=4) N pcs * [ARK 2.5H-A1] + 1 pcs [ARK 2.5H-A1 Cable] + 1 pcs [HVC 60050-A1] + N pcs * [ARK Battery Wall Bracket]</p> <p>Floor standing installation 1 cluster Installation (3<=N<=6) N pcs * [ARK 2.5H-A1] + 1 pcs [ARK 2.5H-A1 Cable] + 1 pcs [HVC 60050-A1] + 1 pcs [ARK 2.5H-A1 Base]</p> <p>1 cluster in 2 columns installation N pcs * [ARK 2.5H-A1] + 1 pcs [ARK 2.5H-A1 Cable] + 1 pcs [HVC 60050-A1] + 2 pcs [ARK 2.5H-A1 Base] + 1 pcs [ARK 2.5H-A1 Series cable]</p>
Datalogger	Shine WiFi-X, ShineWiFi-X2, Shine Link-X, Shine 4G-X, ShineLan-X (SPA3000 with ShineWiFi-S or ShineLink)					
Smart meter	CT/ CT Meter					One three-phase smart meter inside package of three-phase SPH/SPA Inverter. TPM-CT-E(100A, 250A) for optional
Backup box	No need for Backup Box, built-in UPS function (SPA and SPH require an ATS-S)					No need for Backup Box, built-in UPS function

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Battery Ready Energy Storage System with ARK XH		Battery Ready Energy Storage System with APX HV		
System	 <p>ARK XH MIN 2500-6000TL-XH</p>	 <p>APX HV MOD 3000-10000TL3-XH MIN 2500-6000TL-XH MID 11-30KTL3-XH</p>		
System Model	ARK XH+MIN-XH	APX HV + MIN-XH	APX HV + MOD-XH(BP)	APX HV + MID-XH
Battery capacity range	5.12kWh-17.92kWh for MIN-XH	5kWh-30kWh		
Matching battery pack quantity	2-7 pcs in series for MIN-XH	1-6 pcs in parallel		
Grid (Single Phase/Three Phase)	Single Phase	Single Phase	Three Phase	Three Phase
BMS/Power module model	BDC 95045-A1	APX 55027-P0	APX 98020-P1/APX 98034-P2	APX 98034-P2
Battery module model	ARK 2.5H-A1	APX 5.0P-B1		
Name of the cable from battery to inverter	ARK XH Battery Cable	Included inside the package of power modules		
Name of the cable from battery to battery (for 1 cluster in 2 columns)	ARK 2.5H-A1 Series cable	APX 5.0P-B1 Parallel extension cable		APX 5.0P-B1 Parallel extension cable for 1 clusters 2 columns APX Cascading Communication Cable for 2 clusters
Wall mounted bracket	ARK Battery Wall Bracket	APX Battery Wall Bracket		
Battery base model	ARK Battery Base	APX Battery Base		
Battery operation temperature	0 ~ 50°C	0 ~ 50°C		
Battery configuration formula	<p>Wall mounted installation(N<=4) N pcs * [ARK-2.5H-A1] + 1 pcs [ARK XH Battery Cable] +1 pcs [BDC 95045-A1] +Npcs * [ARK Battery Wall Bracket]</p> <p>Floor standing installation 1 cluster Installation (3≤N≤6) N pcs * [ARK-2.5H-A1] + 1 pcs [ARK XH Battery Cable] +1 pcs [BDC 95045-A1] +1 pcs [ARK Battery Base]</p> <p>1 cluster in 2 columns Installation N pcs * [ARK-2.5H-A1] + 1 pcs [ARK XH Battery Cable] +1 pcs [BDC 95045-A1] +2 pcs [ARK Battery Base] +1 pcs [ARK 2.5H-A1 Series cable]</p>	<p>Floor standing installation 1 cluster Installation N pcs * [APX 5.0P-B1] +1 pcs [APX 55027-P0] +1 pcs [APX Battery Base]</p> <p>1 cluster in 2 columns Installation N pcs * [APX 5.0P-B1] +1 pcs [APX 55027-P0] +2 pcs [APX Battery Base] +1 pcs [APX 5.0P-B1 Parallel extension cable]</p> <p>Note: Adding [APX Battery Wall Bracket] per column if need wall-mounted installation</p>	<p>Floor standing installation 1 cluster Installation N pcs * [APX 5.0P-B1] +1 pcs [APX 98034-P2/APX 98020-P1] +1 pcs [APX Battery Base]</p> <p>1 cluster in 2 columns Installation N pcs * [APX 5.0P-B1] +1 pcs [APX 98020-P1] +2 pcs [APX Battery Base] +1 pcs [APX 5.0P-B1 Parallel extension cable]</p> <p>Note: Adding [APX Battery Wall Bracket] per column if need wall-mounted installation</p>	<p>Floor standing installation 1 cluster Installation N pcs * [APX 5.0P-B1] +1 pcs [APX 98034-P2] +1 pcs [APX Battery Base]</p> <p>1 cluster in 2 columns Installation N pcs * [APX 5.0P-B1] +1 pcs [APX 98034-P2] +2 pcs [APX Battery Base] +1 pcs [APX 5.0P-B1 Parallel extension cable]</p> <p>Two clusters with separate columns N pcs * [APX 5.0P-B1] +1 pcs [APX 98034-P2] +2 pcs [APX Battery Base] +1 pcs [APX 5.0P-B1 Parallel extension cable]</p> <p>Two clusters and two columns respectively: N pcs * [APX 5.0P-B1] +2 pcs [APX 98034-P2] +4 pcs [APX Battery Base] + 2 pcs [APX 5.0P-B1 Parallel extension cable] + 1 pcs [APX Cascading Communication Cable]</p>
Datalogger		Shine WiFi-X, ShineWiFi-X2, Shine Link-X, ShineLan-X		
Smart meter	Following meters are options: SPM-E, SPM-CT-E(100A)	Following meters are options: SPM-E, SPM-CT-E(120A, 250A), TPM-E, TPM-CT-E(100, 250A)		Following meters are options: TPM-E, TPM-CT-E(100, 250A)
Backup box	SYN 50-XH-10	SYN 50-XH-10		SYN 100-XH-30