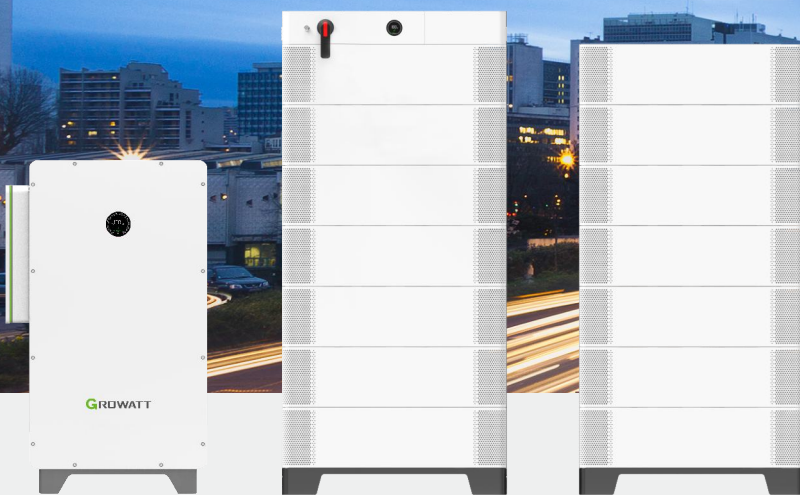


Distributed Energy Storage System

50~100kW/129~200kWh

- Support multi-system operation in parallel
- 100% three-phase unbalanced output
- Flexible capacity options, 129kWh to 200kWh
- Module level energy optimization
- Support to mix new and old battery modules in one system
- Easy installation with modular and stacked design
- Support UPS function and black start
- Long lifespan, 10 years warranty



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Battery System Data						
Model	APX 129.0H-S1	APX 143.3H-S1	APX 157.6H-S1	APX 172.0H-S1	APX 186.3H-S1	APX 200.7H-S1
Number of battery modules	9	10	11	12	13	14
Nominal energy	129.02kWh	143.36kWh	157.69kWh	172.03kWh	186.36kWh	200.70kWh
Max output power	64kW	71kW	78kW	86kW	93kW	100kW
Weight	1277kg	1412kg	1547kg	1682kg	1817kg	1952kg
Operating voltage range	650V~945V					
Nominal capacity	280Ah(@25°C)					
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)					
DoD	90%					
Communication port	CAN					
Control module	APX 1000140-C1					

Hybrid Inverter Data

Hybrid inverter model	WIT 50K-H/-HU	WIT 63K-H/-HU	WIT 75K-H/-HU	WIT 100K-H/-HU
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PV Input Data*1

Max.recommended PV power (for module STC)	109.2kW	124.8kW	156kW	156kW
Maximum PV open-circuit voltage*2	950V (with 9 BMs connected) / 1000V (with > 9 BMs connected)			
MPPT voltage range	180~800V			
Max.input current per MPP tracker	32A			
Max.short-circuit current per MPP tracker	40A			
No.of MPP trackers	7	8	10	10

AC Side Data (On-grid)

AC nominal power	50kW	63kW	75kW	100kW
Max. output current	83.3A@380V 79.7A@400V	105A@380V 100.4A@400V	125A@380V 119.6A@400V	166.7@380V 159.4A@400V
Nominal AC voltage	380/400/415V			
AC voltage range	-15%~10%			
Nominal grid frequency/frequency range	50/60Hz, 45~55Hz/55~65Hz			
Power factor(@nominal power)	>0.99			
Adjustable power factor	-1...+1			
THDi	<3%			
AC grid connection type	3P3W+PE/3P4W+PE			

AC Side Data (Off-grid)*3

AC nominal power	50kW	63kW	75kW	100kW
Max. AC apparent power	60kVA	75.6kVA	90kVA	120kVA
Max. output current	90.9A	114.5A	136.4A	181.8A
Nominal AC voltage	220V/230V/240V(L-N), 380V/400V/415V(L-L)			
Nominal grid frequency	50/60Hz			
THDv	<3%(Linear load)			
Load unbalance	100% three-phase unbalance			
Overload capacity	≤110%: Continues; 110%~120%: < 10min; >120%: 200ms			
On/off grid transfer time	≤20ms			

System Data

Installation*4	Floor installation			
Ingress protection	IP66			
Communication interfaces	RS485/CAN, WiFi/LAN (Opt)			
Cooling mode	Smart air cooling			
Operating temperature	-10°C ~ 50°C			
Relative humidity	5%~95%			
Altitude	<4000m			
Topology	Transformerless			
Warranty (5/10 years)	Yes/Opt			

Battery System: IEC 62619(Cell&Pack), IEC 60529, IEC 60730, IEC 62477, CE, UN 38.3, RoHS
 Hybrid Inverter: EN 62920-2017, IEC/EN 62477-1, IEC/EN 62109-1, IEC/EN 62109-2, IEC 62116, IEC 61727, G99:2020, EN 50549-1, VDE 4105, NRS 097-2-1

System Options*5

APX 200.7H-S1 (200kWh)	√	√	√	√	
APX 186.3H-S1 (186kWh)	√	√	√	Limited(Max 93kW)	
APX 172.0H-S1 (172kWh)	√	√	√	Limited(Max 86kW)	
APX 157.6H-S1 (157kWh)	√	√	√	Limited(Max 78kW)	
APX 143.3H-S1 (143kWh)	√	√	Limited(Max 71kW)	Limited(Max 71kW)	
APX 129.0H-S1 (129kWh)	√	√	Limited(Max 64kW)	Limited(Max 64kW)	
Battery System	Inverter	WIT 50K-H/-HU	WIT 63K-H/-HU	WIT 75K-H/-HU	WIT 100K-H/-HU

*1 Hybrid inverter can be replaced as storage inverter(WIT 50-100K-A/-AU), PV input data will be removed

*2 The maximum open circuit voltage of PV string should take into account the most extreme operating low temperature.

*3 The parameter of AC side data(Off-grid) is only available for WIT -HU/AU model

*4 Floor installation requires extra base for battery(W/H/D=920/510/110mm)

*5 Labeled with "√" means the system can have a full load AC output, and labeled with "Limited" means the AC output of the system will be 0.5 multiplied by battery capacity when powered by battery only.

* Nominal charge/discharge current and power derating will occur related to temperature and SOC.