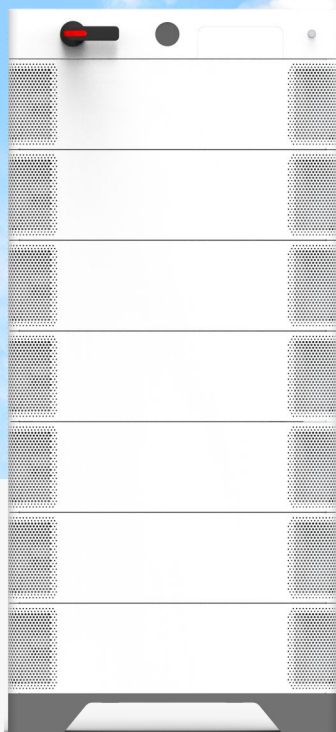


Commercial Battery System

APX 86~114kWh

- 86kWh~114kWh for 220V&208V WIT inverters
- Module level energy optimization
- Support to mix new and old battery modules in one system
- Easy installation with modular and stacked design
- Long lifespan, 10 years warranty



Preliminary Version

P O W E R
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GROWATT

<https://us.growatt.com>

Datasheet	APX 86.0H-S1-US		APX 100.3H-S1-US	APX 114.6H-S1-US
System demo				
Control module	APX 1000140-C1-US			
Number of power modules	1			
Battery module	APX 14.3P-B1-US			
Battery module energy	14.33kWh			
Number of battery modules	6	7	8	
Nominal energy	86.01kWh	100.35kWh	114.68kWh	
Rated energy	77.41kWh	90.31kWh	103.21kWh	
Max output power* ¹	43kW	50kW	57kW	
Peak output power	60kW,60s	70kW,60s	80kW,60s	
Dimension (W/H/D) /column* ²	920/1733/510mm /1 36.4/68.2/20.0inch /1	920/1981/510mm /1 36.2/78.0/20.0inch /1	920/1237/510mm /2 36.2/48.7/20.0inch /2	
Compatible inverter	WIT 28-55kW/208V&220V series inverter			
Weight	853kg/1881lbs	988kg/2179lbs	1142kg/2517lbs	
Nominal voltage	512V			
Operating voltage range	372V~630V			
Output full load voltage range	410V~585V			
Nominal capacity	280Ah(@25°C)			
Rated capacity	252Ah(@25°C)			
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)			
DoD	90%			
Ingress protection	IP66/NEMA 4X			
Installation* ³	Floor installation			
Operating ambient temperature	-10°C~50°C/14°F~122°F			
Relative humidity	5%~95%			
Cooling	Smart air cooling			
Altitude	≤4000m (13123ft)			
Warranty	10 years			
Control Module		APX 1000140-C1-US		
Dimension(W/H/D)	920/135/510mm 36.2/5.3/20.0inch			
Weight	25kg/55.1lbs			
Communication port	CAN			
Operating voltage range	250V-950V			
Max.continuous current	140A			
Peak current	196A,60s			
Monitoring parameters	SOC, system voltage, current, cell voltage,cell temperature, PCBA temperature			
Battery Module		APX 14.3P-B1-US		
Nominal energy	14.33kWh			
Expansion ability	Max. 14 units in series up to 200kWh			
Nominal voltage	80V			
Operating voltage range	0~105V			
Rated power	7.16kW			
Max. continuous current	140A			
Peak current	196A,60s			
Dimensions(W/H/D)	920/248/510mm 36.2/9.6/20.0inch			
Weight	135kg/297.6lbs			
UN38.3, UL1973, UL9540, UL9540A, FCC				

*1 Depending on the max. battery charge/discharge power of the inverter.

*2 Including control module (APX 1000140-C1-US).

*3 Floor installation requires extra base (W/H/D=920/110/510mm).

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