

# SAVANT



## POWER STORAGE 20

(PS20-12.5KW-100A-XX)

An all-in-one performance battery and inverter solution that's powerful yet simple to install. Scales to handle electrical services up to 800A with multiple units, delivering clean reliable energy to every circuit in the home.

### INVERTER (PS-INV-12.5KW-100A-XX)

Continuous Inverter Output	12.5 kW
Maximum Surge Output (On Grid)	30 kW, 300 ms / 28 kW, 25 s
Maximum Surge Output (Off Grid)	24 kW, 400 ms / 19.1 kW , 1 s / 16 kW, 10 s
Interconnection Rating	100 A, per Inverter
Interconnection Voltage	120/240 V
Interconnection Frequency	60 Hz
Maximum AC & DC Power Support	13 kW
Off-Grid Power Rating	52 A
Grid Transfer Time	< 70 ms
Split Phase Load Imbalance	100%
Power Factor	0.9 +/-
Total Harmonic Distortion	< 3 %
Round Trip Efficiency	93.8 %

### BATTERY (PS20-BATT-20KWH-ENCL-XX)

Rated Energy Capacity	20 kWh
Recommended Max DOD	90 %
Battery Voltage, Nominal	409.6 V
Battery Chemistry	LiFePO <sub>4</sub>

### SAVANT POWER SYSTEM

Single App Experience	Yes
Load Management Platform	Included
Connectivity	Wi-Fi, Wired
Deployment	Savant Power & Light App and Savant Power Storage App

### POWER SOURCE COMPATIBILITY

Maximum Solar Input (DC)	17 kW
Maximum Solar V <sub>oc</sub>	450 V
Solar MPPTs	2
Strings/MPPT	2
Rated MPPT Power	6.25 kW
Rated Solar Current, I <sub>MP</sub>	26 A per MPPT
Maximum Solar Input, I <sub>sc</sub>	37 A per MPPT
MPPT Efficiency	99 %
Integrated RSD Transmitter	APsmart PLC-1P Sunspec Compliant
AC Coupled Solar Support	Yes
Automatic Generator Support	Yes

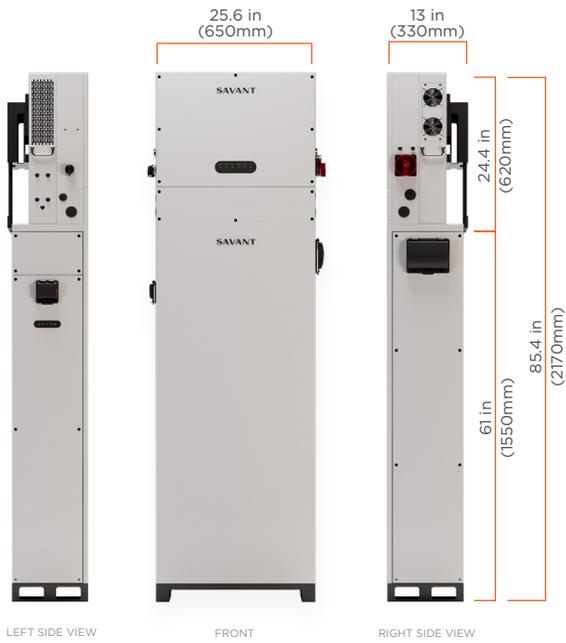
### CERTIFICATIONS

Safety Standards	UL 1741 SA, UL 1741 SB, UL 1741, UL 1741 PCS, UL 1699B, UL 9540, UL 1973, UL 1642, C22.2 No. 1071 and 330
Grid Interconnection	IEEE-1547:2018, IEEE-1547:2020.1, CA Rule 21, HECO, and PREPA
Emissions	FCC Part 15 Class B

### LIFE CYCLE

Warrantied Cycles	73 MWh / 3,650 cycles
Rated Cycles*	6000
Estimated Capacity, 10 Years	75 %
Warranty	10 Years

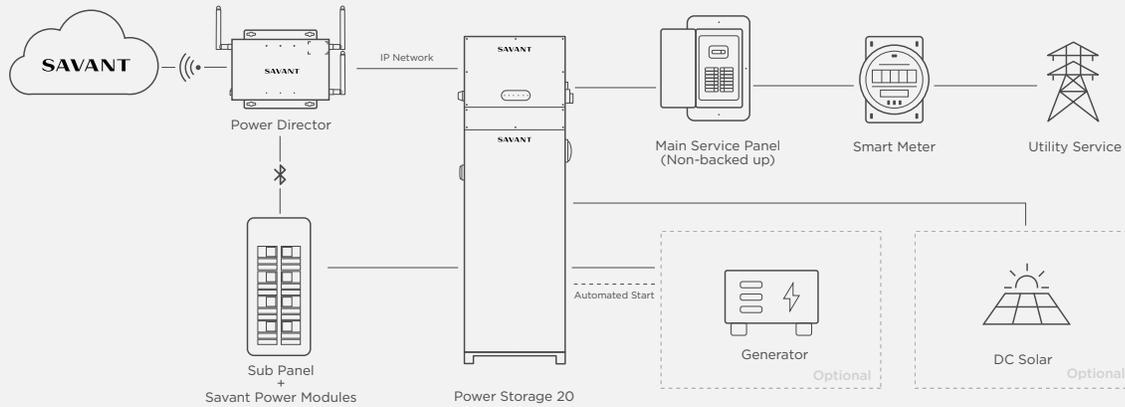
\*Based on 90% DoD / 0.5C. Refer to the [New Savant Product Limited Warranty](#) terms for more details on coverage.



## PHYSICAL SPECIFICATIONS

Total Unit Dimensions (HxWxD)	85.4 x 25.6 x 13 in
Total Unit Weight	600 lbs
Inverter Dimensions	24.4 x 25.6 x 11 in
Inverter Weight	106 lbs
Battery Cabinet Dimensions	61 x 25.6 x 13 in
Battery Cabinet Weight	
Empty	221 lbs (100 kg)
Full Weight	494 lbs (224 kg)
Battery Module Weight	47.4 lbs (21.5 kg)
Enclosure Type	NEMA4X
Inverter/Battery Installation	Stacked or Separate
Operating Temperature	32°F - 113°F
Recommended Temperature	50°F - 95°F
Altitude	< 9842 ft
Noise Level	< 55 dB

## PARTIAL HOME BACKUP / SINGLE UNIT APPLICATION



## WHOLE HOME BACKUP / STACKED APPLICATION

