

INTRODUCING
POWER STORAGE 50

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



POWER STORAGE 50 SPECIFICATIONS
(PS50-12.5KW-100A-XX)

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

Continuous Inverter Output	12.5 kW
Continuous Dual Inverter Output	25 kW
Maximum Surge Output (On-Grid)	30 kW, 300 ms / 28 kW 25 s per Inverter
Maximum Surge Output (Off-Grid)	24 kW, 400 ms / 19.1 kW, 1 s / 16 kW, 10 s per Inverter
Interconnection Rating	100 A, per Inverter
Interconnection Voltage	120/240 V
Interconnection Frequency	60 Hz
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 (PS50-BATT-50KWH-XX)

Rated Energy Capacity	50 kWh
Recommended Max DOD	90 %
Battery Voltage, Nominal	512 V
Battery Chemistry	LiFePO ₄

SAVANT POWER SYSTEM

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

POWER SOURCE COMPATIBILITY

Maximum Solar Input (DC)	17 kW
Maximum Solar V _{oc}	530 V
Solar MPPTs	2
Strings/MPPT	2
Rated MPPT Power	6.25 kW
Rated Solar Current, I _{MP}	26 A per MPPT
Maximum Solar Input, I _{sc}	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 9540A, UL 1973, UL 1642, C22.2 No. 107.1 and 330
Grid Interconnection	IEEE-1547:2018, IEEE-1547:2020.1, CA Rule 21, and HECO
Emissions	FCC Part 15 Class B

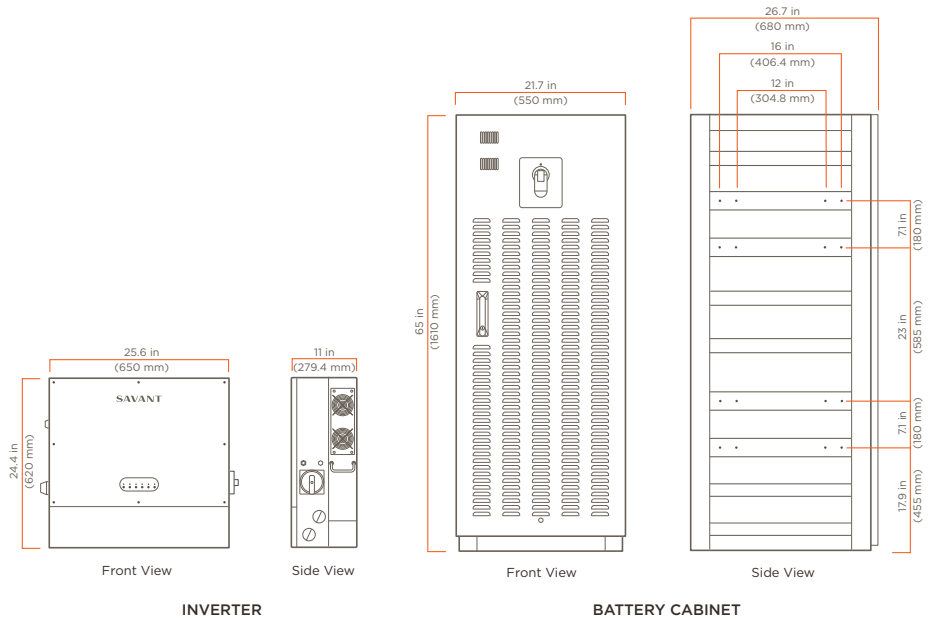
LIFE CYCLE

Warrantied Cycles	182 MWh / 3,650 cycles
Rated Cycles*	6000
Estimated Capacity, 10 Years	75 %
Warranty	10 Years

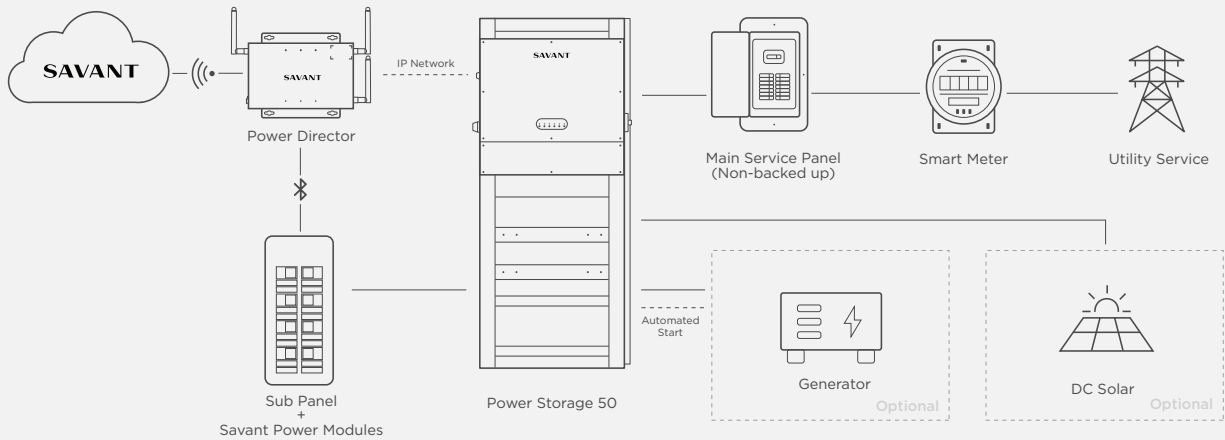
*Based on 90% DoD / 0.5C. Refer to the [New Savant Product Limited Warranty](#) terms for more details on coverage.

PHYSICAL SPECIFICATIONS

Total Unit Dimensions (HxWxD)	65 x 32.3 x 26.7 in (Inverter side mount)
Total Unit Weight	1314 lbs (596 kg)
Inverter Dimensions	24.4 x 25.6 x 11 in
Inverter Weight	106 lbs
Battery Cabinet Dimensions	65 x 21.7 x 26.7 in
Battery Cabinet Weight	
Empty	207 lbs (94 kg)
Full Weight	1210 lbs (549 kg)
Battery Module Weight	100 lbs (45.4 kg)
Installation Type	Indoor
Enclosure Type	NEMA 2 (IP21)
Inverter/Battery Installation	Side Mount 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

