

Table 1: Storage system summary. See the full table at [www.bit.ly/SQSBSCT](http://www.bit.ly/SQSBSCT)

Product name	Battery type	Price (estimated retail incl. GST)	Usable storage	Power	IP rating	Comments
<b>All-in-one systems</b>						
Alpha-ESS ECO S5	Lithium iron phosphate	\$12,375	12.96kWh	5kW continuous	IP 21	Off-grid capable
Ampetus Energy Pod	Lithium iron phosphate	\$11,385	11.52kWh	5kW continuous, 6kW peak	IP 42	Off-grid capable, built in voltage regulator, patent-pending voice control
Fusion Power Systems Titan-3	Aqueous hybrid ion	\$13,750	8kWh	3.5kW continuous	IP 56	Very heavy (614kg), very low fire risk, environmentally benign chemistry
GridEdge Quantum	Sodium nickel chloride	\$20,000	7.68kWh	4.5kW continuous, 9kW peak	IP 43	Off-grid capable, wide operating temp range (-20 to 60°C)
Magellan HESS	Lithium manganese cobalt oxide	\$20,600	11.52kWh	5kW continuous	IP 54	Has backup capability, can be expanded to up to 19.2kWh
SENEC.home Li 10.0	Lithium manganese cobalt oxide	\$18,700	10kWh	2.5kW continuous	IP 21	Backup capable (not off-grid), made in Germany
SolaX BOX	Lithium iron phosphate	\$14,100	11.52kWh	4.6kW grid connected / 6.0kW peak in backup mode	IP 20	Off-grid capable, 7" Touchscreen + Wi-Fi, Dual Solar inputs up to 6kW, Automatic blackout protection
Sonnenbatterie	Lithium iron phosphate	\$27,000	16kWh	3kW (single phase) or 3.3kW (three phase), 5kW peak	IP 21	Emergency backup available 2017, not off-grid capable
Sunverge SIS	Lithium iron phosphate	\$26,000 (installed), \$899 extra for blackout backup)	9.86kWh	5kW continuous, 8.5kW peak	IP 54	Designed for on-grid use, but grid backup option available
ZEN Freedom Powerbank FPB16	Lithium iron phosphate	\$21,750 (fully installed)	14.4kWh	5kW	TBA	Designed for off-grid use
<b>AC-coupled systems</b>						
Enphase AC Battery	Lithium iron phosphate	\$2000 (fully installed)	1.2kWh	260W per battery (stacks with each additional battery)	IP 20	Modular system, add as many batteries as needed. Not for off-grid when used alone.
Tesla Powerwall 2	Lithium nickel manganese cobalt oxide	\$8750 (includes Tesla Gateway)	13.5kWh	5kW continuous, 7kW peak (10 seconds)	IP 67 for battery and electronics, IP56 for wiring	Includes battery inverter but must be used with solar inverter
Trinabess Powercube	Lithium iron phosphate	\$9665	6.48kWh	3kW continuous	IP 54	Requires Powerbox battery inverter
<b>Battery-only systems</b>						
Akasol neoQube	Lithium iron phosphate	\$12,000	4.95kWh	5kW	IP 50	Off-grid capable, only compatible with SMA inverters
Ampetus "Super" Lithium	Lithium iron phosphate	\$2300	2.7kWh	1.5kW continuous, 3kW peak (10 seconds)	IP 21	Off-grid capable, very long warranty
Aquion Aspen 48S-2.2	Aqueous hybrid ion	\$2200 per stack	2.2kWh	0.68kW continuous, 1kW peak (stacks with each additional 2.2kWh pack)	IP 22	Off-grid capable, availability currently unknown due to company restructuring
BMZ ESS3.0	Lithium nickel manganese cobalt oxide	\$7700	5.4kWh	8kW continuous, 16kW 3 second peak	IP 21	Off-grid capable with Sunny Island inverter
BYD B-Box LV Residential	Lithium iron phosphate	\$8734	9.8kWh	10kW continuous	IP 55	Integrated BMS, expandable from 4.9 to 19.6kWh in same cabinet
DCS PV 5.0	Lithium iron phosphate	\$5900	5.12kWh	5.12kW continuous, 10.24kW peak	IP 67	Off-grid capable, integrated BMS, designed to be rebuilt
DCS PV 10.0	Lithium iron phosphate	\$9998	10kWh	5.12kW continuous, 10.24kW peak	IP 67	Off-grid capable, integrated BMS, designed to be rebuilt
Delta Hybrid E5	Lithium ion	\$6600	4.8kWh	3kW continuous	IP 55	Off-grid capable, designed to work only with Delta's E5 inverter
ELMOFO E-Cells ALB52-106	Lithium polymer (Kokam)	\$8190	4.4kWh	5kW continuous, 40kW peak	IP 21	Off-grid capable, very high discharge capability, integrated BMS
Fronius Solar Battery	Lithium iron phosphate	\$15,550	9.6kWh	4kW continuous	IP 20	Off-grid capable, can only be installed indoors, designed to work with Fronius Symo Hybrid 3-phase inverter only
GCL E-KwBe 5.6	Lithium nickel manganese cobalt oxide	\$3650	5.6kWh	3kW continuous	IP54	Off-grid capable, but designed for on-grid, multiple colours available
Hybrid 'Home' Plus	Lead crystal	\$11,000	8.2kWh	3kW continuous, 5kW peak	IP 55	Off-grid capable, low fire risk, relatively low cycle life
Leclanche Apollion Cube	Lithium nickel manganese cobalt oxide	\$9200	5.4kWh	3.3kW continuous, 6.5kW peak	IP 21	Off-grid capable with Sunny Island or Struder inverter/charger, expandable up to 12 modules
LG Chem Resu 10	Lithium nickel manganese cobalt oxide	\$8800	8.8kWh	5kW continuous, 7kW peak (3 seconds)	IP 55	Off-grid capable, modular expansion capable, compact and lightweight
LG Chem Resu 6.5	Lithium nickel manganese cobalt oxide	\$6600	5.9kWh	4.2kW continuous, 4.6kW peak (for 3 seconds)	IP 55	Off-grid capable, modular expansion capable, compact and lightweight
Pylontech US2000B	Lithium iron phosphate	\$1999	1.92kWh	2kW continuous per module (stacks with each additional module)	IP 20	Integrated BMS, compatible with SolaX Power Hybrid and Redback inverters
Redflow Zcell	Flow (zinc-bromide)	\$12,600	10kWh	3kW continuous, 5kW peak	IP 43	Off-grid capable, low fire risk, requires a maintenance cycle once a week
SimpliPhi PHI3.4 Smart-Tech battery	Lithium iron phosphate	\$5150	3.4kWh (2.75kWh if cycling at 80% DoD)	1.5kW continuous (48V version) 0.75kW continuous (24V version)	IP 32	Off-grid capable, compact size, modular expansion capable, integrated BMS
SolaX 3.3	Lithium nickel manganese cobalt oxide	\$4100	3.3kWh	3.2kW	IP 20	Off-grid capable but only with off-grid products approved by LG
SolaX 6.5	Lithium nickel manganese cobalt oxide	\$5200	6.5kWh	6.5kW	IP 20	Off-grid capable but only with off-grid products approved by LG