

PowerCache® – L (500 kVA / 500 kWh) Datasheet

PowerCache® – L: Grid-in-a-Box

PowerCache® is a utility-grade power-system-strengthening inverter/battery system, or a "grid in a box". It enables operators of C&I sites, microgrids and networks to resolve power constraints and safely operate an isolated network with up to 100% renewables. The versatile system combines robust, ultra-rapid-response power converters with a high-performance battery and intelligent microgrid control. It provides power system strength incl. inertia, utility-grade fault-current, and low voltage ride-through. It can participate in ancillary services markets if on-grid. PowerCache is expandable and integrates seamlessly with other systems on-site.



PowerCache-L modified battery cabinet for illustration only – PowerCache-L is composed of two cabinets

System Performance		
Nominal frequency and voltage	47Hz 53Hz, 415V or 400V +10%/-6%	
Grid connection	3-phase/3-wire at 375V AC-LV for coupling via a transformer (YNd1) and a controlled breaker (in a separate enclosure) to the LV or HV network	
Apparent power rating	S _{Nom} = 500 kVA (I _{Nom} = 385A) – the sustained load a system can serve at	
	≤ 40°C ambient temperature within the normal range of battery SoC	
Inverter maximum sustained loading	3-phase: S_{Nom} = 500 kVA, single phase: S_{Nom} / $\sqrt{3}$ (other phases not loaded)	
Permissible phase load imbalance	Unlimited within the rating per phase +/-	
Inverter base electrical function	Current source (on-grid) Emulated synchronous machine (ESM) (on- & off-grid, various modes)	
Harmonics	Compliant with AS4777.2	
Step load capability (islanded or UPS)	Instantaneous load swing up to 220% S _{Nom} (absorbing to injecting)	
Dynamic model & control sampling rate	1 ms (including for inertia, frequency PID and droop model & controls); 140 μs for current limiting and fault current control	
Response time to external control signal	< 20 ms (plus any overlaid controller reaction time)	
Primary frequency control step response – rise time / settling time	User definable via generator time constant and frequency PID control parameters, typically: 150 ms / 1500 ms	
System overload capability	~400% instantaneous, 180% for 2s, 130% for 1 minute in 10 minutes	
Fault current capability	Fault current settable up to 180% I _{Nom} (3-phase) and 310% (1-phase) for 2s Fault currents add up for sets made from parallel PowerCache systems	
Other power system strength functions	Inertia, voltage disturbance- and fault ride through, direct feeder voltage control (via VT)	
Ancillary services functions	FCAS (all services), FFR (2s), high-res. inertia (implemented on the inverter firmware)	
Grid AC protection locations	BESS feeder and inter-tie protection of BESS with the site mains or site main generator	
Grid AC protections elements	Over/under current/voltage/frequency, RoCoF, VVS, negative sequence voltage, sync-checks, anti-islanding to AS4777	
Application-level protections	Over/under SoC, protection consistency, application alarms, safe states, etc	
DC protection	Insulation monitoring, overcurrent/voltage, Battery OEM protections	
System AC-AC round trip efficiency	> 86% including HVAC-losses, >89% excluding HVAC-losses (for a typical pattern)	
Battery Performance		
Total DC energy / usable energy	620 kWh / 505 kWh at 1C (dis-)charge	
Battery chemistry	NMC cathode, LiNi _x Mn _y Co _z O ₂ , pouch cell structure	
Indicative battery cycle life / full cycle equivalents (FCE)	4,000 FCE at 90% DoD to 70% capacity retention; or 5,000 FCE at 80% DoD to 70% capacity retention	
Battery calendar life	>13 years	
Battery Protection	Cell-, rack- and system-level supervision, control and protection of current, voltage, power, SoC, SoH, temperature, imbalances, insulation	



Logaing all system actuals, modes, parameters, and features; VPN access Cloud-Client GUI and API Cloud-Client GUI and API Cloud-Client GUI and API via the PaDECS®-Cloud (SaaS), for monitoring and scheduling Web-API Web-API via VPN for 3"-part system integration SCADA Modbus TCP and/or discrete hardwired alarms and E-Stop Mechanical - Inverter System Module Fire mitigation Smoke & heat detection Cabinet cooling, if outdoor Api validoor Cabinet structure Single-walled, lined with heat & noise protective foam Dimensions and weight (outdoor) Mechanical - Battery System Module Fire mitigation Novec® gaseous fire suppression system with a defector tube winding through the cabinet Battery Enclosure Cooling HVAC split cycle system via four door coolers, with central environmental control Cabinet structure: Double-walled, four doors Hight x Width x Depth = 2,350 mm x 1,860 mm x 1,920 mm, 6,500 kg Environmental Humidity Six to 100% outside; 5% to 95%, non-condensing inside cabinet Altitude Up to 1,000 m without deraiting Operating ambient temperature ASC 4m distance) 1 P84 (inverter system module) Compliances include: ASNES 4777 2,2020 The inverter/filter assembly is AS4777.2 certified. Cert No.: SAA192864 AS 5139 Safety of battery system for use with power conversion equipment — as applicable Electrical wiring rules; switchgear assembly standard compliance as far as applicable Electrical wiring rules; switchgear assembly standard compliance as far as applicable Electrical wiring rules; switchgear assembly standard compliance as far as applicable Electrical wiring rules; switchgear assembly standard compliance as far as applicable Electrical wiring rules; switchgear assembly standard compliance as far as applicable Electrical wiring rules; switchgear assembly standard compliance as far as applicable Electrical wiring rules; switchgear assembly standard compliance as far as applicable Electrical wiring rules; switchgear assembly standard compliance	Interfaces	
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Web-API via VPN for 3°-part system integration SCADA Modbus TCP and/or discrete hardwired alarms and E-Stop Mechanical - Inverter System Module Fire mitigation Smoke & heat detection Cabinet structure Single-walled, lined with heat & noise protective form Dimensions and weight (outdoor) Hight x Width x Depth = 2,100 mm x 1,260 mm x 1,880 mm (excl. filter cowlings); 2,300 kg Mechanical - Battery System Module Fire mitigation Nove© gaseous fire suppression system with a detector tube winding through the cabinet Battery Enclosure Cooling HVAC split cycle system via four door coolers, with central environmental control Cabinet structure: Double walled, four doors Dimensions Hight x Width x Depth = 2,360 mm x 1,860 mm x 1,920 mm, 6,500 kg Environmental Humidity Sh to 1,00% autside; 5% to 95%, non-condensing inside cabinet Altitude Up to 1,000 m without derating Operating ambient temperature -\$0^{\circ} C - 40^{\circ} C without derating, 20 - 50^{\infty} C max (inverter); 0 - 45^{\infty} C (sustained, battery) Noise (max. @ 1 m distance) 1PS4 (inverter system module), IPS5 (battery system module) Compliances include: ASINZS 4777.2.2020 The inverter/filter assembly is AS4777.2 certified. Cert No.: SAA192684 AS5139 Safety of battery systems for use with power conversion equipment – as applicable EEC 61000 (Part 3), EN 61800 EMC emission limits AS3000, AS61429 Electrical wiring rules; switchgear assembly standard compliance as far as applicable System Configuration Batteries Inverters LCL Filters Transformer Switchgear	Local Data Historian Client	Logging all system actuals, modes, parameters, and features; VPN access
Modbus TCP and/or discrete hardwired alarms and E-Stop Mechanical - Invertor System Module Fire mitigation Smoke & heat detection Cabinet cooling, if outdoor Forced air cooling, air inlet: large impeller & pleat filter assembly Cabinet structure Single-walled, lined with heat & noise protective foam Dimensions and weight (outdoor) Hight x Width x Depth = 2,100 mm x 1,260 mm x 1,880 mm (excl. filter cowlings); 2,300 kg Mechanical - Battery System Module Fire mitigation Novec® gaseous fire suppression system with a detector tube winding through the cabinet Battery Enclosure Cooling HVAC split cycle system via four door coolers, with central environmental control Cabinet structure; Double-walled, four doors Dimensions Hight x Width x Depth = 2,350 mm x 1,860 mm x 1,920 mm, 6,500 kg Environmental Humidity S% to 100% outside; 5% to 95%, non-condensing inside cabinet Attitude Up to 1,000 m without derating -20 – 50° C max (inverter); 0 – 45° C (sustained, battery) Noise (max. @ 1 m distance) <65 dBA (excluding compressor) <70 dBA (compressors on) IP Rating IP54 (invertor system module), IP55 (battory system module) Compliances include: ASN2S 4777.2-2020 The invertor system sof use with power conversion equipment – as applicable EEC 61000 (Part 3), EN 61800 ENC emission limits ES 65 dBA (excluding rules; switchgear assembly standard compliance as far as applicable EEC 61000 (Part 3), EN 61800 ENC emission limits Batteries Inverters LCL Filters Transformer Switchgear	Cloud-Client GUI and API	Cloud-Client GUI and API via the PaDECS®-Cloud (SaaS), for monitoring and scheduling
Mechanical - Inverter System Module Fire mitigation	Web-API	Web-API via VPN for 3rd-part system integration
Smoke & heat detection Cabinet cooling, if outdoor Cabinet structure Single-walled, lined with heat & noise protective foam Dimensions and weight (outdoor) Hight x Width x Depth = 2,100 mm x 1,260 mm x 1,880 mm (excl. filter cowlings); 2,300 kg Mechanical - Battery System Module Fire mitigation Novec® gaseous fire suppression system with a detector tube winding through the cabinet Battery Enclosure Cooling HYAC split cycle system via four door coolers, with central environmental control Cabinet structure: Double-walled, four doors Dimensions Hight x Width x Depth = 2,350 mm x 1,860 mm x 1,920 mm, 6,500 kg Environmental Humidity 5% to 100% outside; 5% to 95%, non-condensing inside cabinet Altitude Up to 1,000 m without derating Operating ambient temperature -5% C -40% C without derating, -20 -50% C max (inverter); 0 - 45% C (sustained, battery) Noise (max. @ 1 m distance) -5% C -40% C without derating, -20 -50% C max (inverter); 0 - 45% C (sustained, battery) Reating -5% C -40% C without derating in Jefs (inverter) and the compressors on) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating operating ambient temperature -5% C -40% C without derating, -20 -50% C max (inverter); 0 - 45% C (sustained, battery) -5% G dSA (excluding compressor) × 70 dBA (compressors on) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating in Jefs (inverter) -5% C -40% C without derating in Jefs (inverter)	SCADA	Modbus TCP and/or discrete hardwired alarms and E-Stop
Cabinet cooling, if outdoor Forced air cooling, air inlet: large impeller & pleat filter assembly Cabinet structure Single-walled, lined with heat & noise protective foam Dimensions and weight (outdoor) Hight x Width x Depth = 2,100 mm x 1,280 mm x 1,880 mm (excl. filter cowlings); 2,300 kg Mechanical - Battery System Module Fire mitigation Novec® gaseous fire suppression system with a distactor tube winding through the cabinet Battery Enclosure Cooling HVAC split cycle system via four door coolers, with central environmental control Cabinet structure: Double-walled, four doors Dimensions Hight x Width x Depth = 2,350 mm x 1,860 mm x 1,920 mm, 6,500 kg Environmental Humidity 5% to 100% outside: 5% to 95%, non-condensing inside cabinet Altitude Up to 1,000 m without derating Operating ambient temperature -5° C -40° C without derating, -20 -50° C max (inverter); 0 - 45° C (sustained, battery) Noise (max. @ 1 m distance) -65 dBA (excluding compressor) <70 dBA (compressors on) IP Rating Pating	Mechanical - Inverter System Mo	dule
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Noise (max. @ 1 m distance)	Altitude	Up to 1,000 m without derating
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Electrical wiring rules; switchgear assembly standard compliance as far as applicable System Configuration HH H	AS 5139	
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System Configuration HH H	AS3000, AS61429	Electrical wiring rules; switchgear assembly standard compliance as far as applicable
Batteries Inverters LCL Filters Transformer Switchgear	System Configuration	
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Contact	Batterie	s Inverters LCL Filters Transformer Switchgear
	Contact	
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