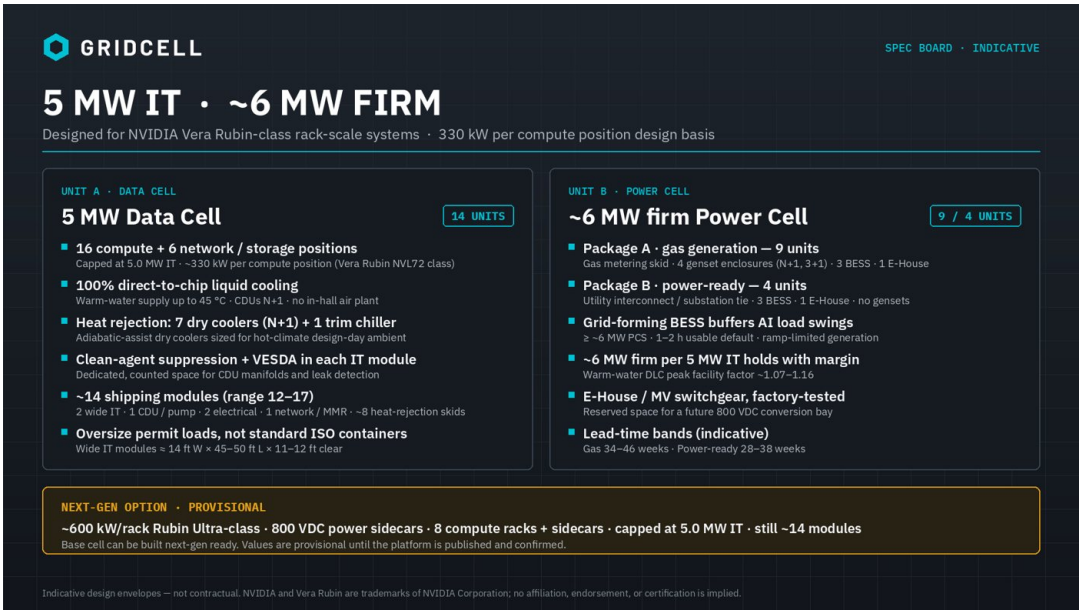
CATALOG · INSTITUTIONAL SPECIFICATION

5 MW Data Cell & ~6 MW firm Power Cell

Catalog brick for US AI pads: a **5 MW Data Cell** designed for NVIDIA Vera Rubin-class rack-scale systems (330 kW/position basis, about 14 factory modules) and a **~6 MW firm Power Cell** (natural gas or power-ready). Units may be ordered paired or standalone. Figures below are indicative design envelopes, not contractual guarantees.

Indicative · Standalone OK · Commercial terms under NDA / direct quote

No equipment OEM brand names in this public sheet; partner selections are project-driven. NVIDIA and Vera Rubin are trademarks of NVIDIA Corporation, named only as the hardware class the Data Cell is designed for. GridCell is not affiliated with, endorsed by, or certified by NVIDIA. Affiliate: GRID CELL AI LLC is an affiliate of Sada Seeley & Associates.



Catalog callout — 5 MW IT Data Cell (14 modules) + ~6 MW firm Power Cell (9 units gas / 4 units power-ready); next-gen option provisional.

MATCHED PAIR

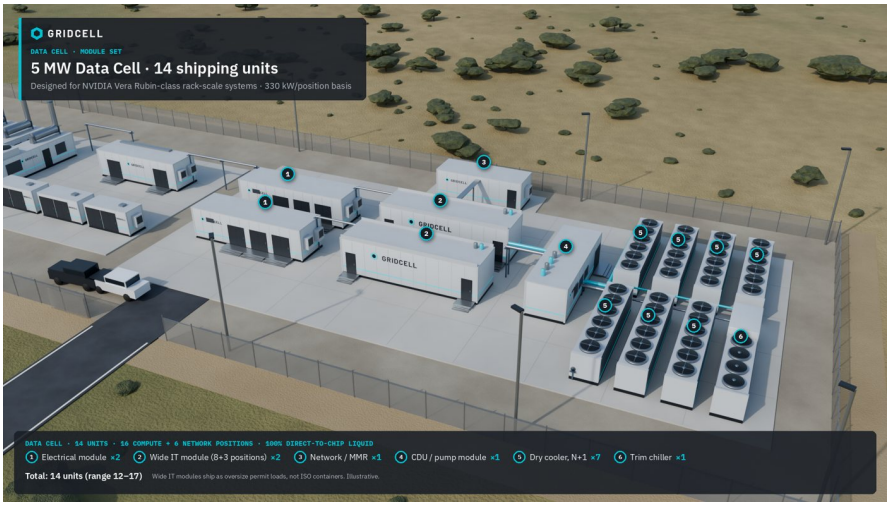
Why ~6 MW firm for 5 MW IT

Facility load is not IT nameplate alone. CDU pumps, dry-cooler fans, the trim chiller at peak, electrical losses, and auxiliaries add overhead. With 45 °C warm-water direct-to-chip cooling, peak facility factor is **~1.07–1.16**, so **~6 MW firm** on the facility bus covers one **5 MW Data Cell** with margin for hot-day ambient and BESS recharge. N+1 gas (3+1 gensets) keeps ~6 MW continuous with one genset offline. The grid-forming BESS (≥~6 MW PCS, 1–2 h default) carries fast AI load swings and bridges starts. It does not replace continuous megawatts.

UNIT A · DATA CELL

5 MW Data Cell — Vera Rubin-class design basis

Standard buyable 5 MW IT cell, delivered as about 14 factory-built modules (range 12–17). A single ISO container does not hold 5 MW: the IT modules are wide prefab units shipped as oversize permit loads.



5 MW Data Cell — 14 shipping units: 2 IT · 1 CDU · 2 electrical · 1 network · 7 dry coolers + 1 trim chiller.

Catalog SKU	**5 MW Data Cell** — designed for NVIDIA Vera Rubin-class rack-scale systems (Vera Rubin NVL72 class)
IT rating	Capped at 5.0 MW IT per cell (enforced by power management)
Rack power basis	~330 kW per compute position (design basis, with headroom above published rack TDP)
Rack positions	16 compute + 6 network / storage (22 positions); 8 compute + 3 network per IT module
Cooling	100% direct-to-chip liquid; warm-water supply up to 45 °C; N+1 CDUs in a dedicated CDU/pump module; 7 dry coolers (N+1) + 1 trim chiller
Liquid (indicative)	~500 L/min (~130 GPM) per 330 kW position at ΔT ≈ 10 K; ~8,000 L/min per cell (calculated; confirmed per rack OEM)
Electrical	2 electrical (LV power block) modules; 415/480 VAC A/B busway per IT module; UPS for CDUs, network, controls; reserved 800 VDC path
IT module envelope	~14 ft W × 45–50 ft L × 11–12 ft clear; steel deck ≥30 kPa in rack zones; dedicated space for CDU manifolds, leak detection, clean-agent cylinders
Safety	Clean-agent total-flooding suppression + VESDA aspirating smoke detection per IT module; zoned leak detection with branch isolation
Power interface	Fed from a matched ~6 MW firm Power Cell (gas or power-ready) via a standardized MV/LV interface
Delivery	~14 shipping modules; racks installed on site; field work is foundations, piping, electrical tie-in, commissioning

Module schedule — one 5 MW Data Cell

Wide IT modules	**2** — ~14 ft W × 45–50 ft L × 11–12 ft clear; 8 compute + 3 network / storage positions each
CDU / pump module	**1** (1–2) — N+1 CDUs, filtration, expansion, make-up, controls
Electrical modules	**2** (2–3) — LV power blocks, busway feeders, UPS
Network / MMR module	**1** (0–1) — spine / aggregation, fiber patching, two diverse carrier entries
Heat-rejection skids	**7 + 1** (6–9 + 1) — adiabatic-assist dry coolers N+1 + one trim chiller
Total	**≈ 14 shipping units (range 12–17)**; the Power Cell is separate

UNIT B · POWER CELL

~6 MW firm Power Cell

Firm facility bus sized for one 5 MW Data Cell, as a natural-gas package (9 units) or a power-ready package (4 units).



Gas package — gas metering skid + 4 genset enclosures (N+1) + 3 BESS + E-House = 9 units.

Catalog SKU	**~6 MW firm Power Cell** — natural gas (Package A) or power-ready (Package B)
Firm output	~6 MW firm on the facility bus per 5 MW IT; warm-water DLC peak facility factor ~1.07–1.16
Package A · gas (9 units)	1 gas metering / regulation skid · 4 genset enclosures (N+1, 3+1) · 3 BESS enclosures · 1 E-House / MV
Package B · power-ready (4 units)	Utility interconnect / substation tie (utility or site scope) · 3 BESS enclosures · 1 E-House / MV · no gensets
Generation · N+1	Package A: pipeline natural gas; 60 Hz reciprocating gensets, 3+1 at ~2.0–2.5 MWe class, so ~6 MW continuous remains with one unit offline
BESS (default)	Grid-forming, ≥~6 MW PCS; 1–2 h usable (~6–12 MWh class); carries AI load swings (target: full Data Cell step within ~100 ms) while gensets run ramp-limited
Electrical BOP	Factory E-House / MV switchgear → Data Cell electrical modules (indicative 11–34.5 kV MV class; site-locked); reserved 800 VDC bay
Fire / life safety	BESS to UL 9540 with UL 9540A test data and NFPA 855 siting; gensets and fuel gas per NFPA 37 / 54
Scale-out / delivery	One Power Cell per 5 MW Data Cell; factory-integrated modules with FAT before shipment; field foundations, gas or utility tie-in, commissioning

NEXT-GEN OPTION · PROVISIONAL

~600 kW/rack · 800 VDC · same 5 MW cell

Status	**NEXT-GEN OPTION / PROVISIONAL** — planning basis only; values change as the platform is published
Rack basis	~600 kW per compute rack (Rubin Ultra class) with an 800 VDC power sidecar per rack
Positions	8 compute racks (~4.8 MW) + 8 power sidecars + 4 network, capped at 5.0 MW IT
Cooling / structure	100% DLC up to 45 °C; ~900 L/min per rack at ΔT ≈ 10 K; deck ≥50 kPa in compute zones
Module set	≈ 14 shipping modules (range 12–18); base cell can be built next-gen ready (pair layout, larger headers, heavier deck, 800 VDC bay)

SCHEDULE · INDICATIVE

Lead-time notes

Industry / publicly cited ranges, not GridCell commitments. Final lead times are set in the commercial agreement.

GridCell planning bands	**Gas ~34–46 weeks. Power-ready ~28–38 weeks** (Data-only follows the power-ready band). Indicative only.
Gas gensets (market context)	Publicly cited ranges historically ~60–70 weeks and toward ~110 weeks under pressure. GridCell planning uses the bands above.
BESS (containerized)	Factory cabinets often ~4–8 weeks; custom / multi-MWh ~8–16+ weeks; ocean freight often +2–6+ weeks.
E-House / MV prefab	Shorter delivery vs site-built is commonly claimed; absolute weeks are project-specific.
Data Cell modules	Typically shorter than genset slots; the ~14 modules are built in parallel with the Power Cell when ordered together.
Planning implication	Treat genset manufacturing slots as critical path on gas sites. Align ship dates to site pull.

COMMERCIAL

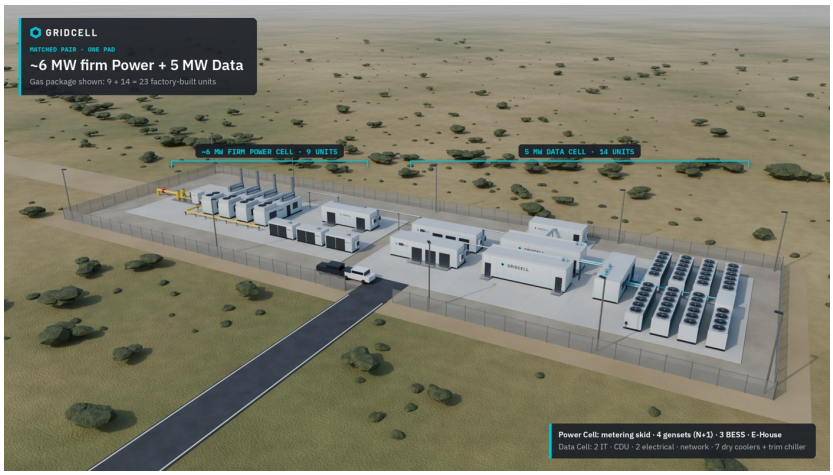
Pricing & payment

Commercial terms under NDA / direct quote. Standalone Power Cell or Data Cell orders are allowed. List prices and payment schedules are not published in this public sheet. Contact contact@gridcellai.com. No card payments via this document or the public website.

SITE PACKAGES

Two primary site bricks

Package A — Gas-generation	9-unit Power Cell (gas metering skid, 4 gensets N+1, 3 BESS, E-House) + 14-module 5 MW Data Cell = 23 units. Island / thin-grid / behind-the-meter. Indicative lead ~34–46 weeks. Pricing under NDA.
Package B — Power-ready	4-unit Power Cell (3 BESS + E-House; no gensets, no gas pipe) + 14-module Data Cell = 18 units, beside a utility substation / interconnect that delivers ~6 MW firm. Indicative lead ~28–38 weeks. Pricing under NDA.



Matched pair — ~6 MW firm Power Cell (9 units, gas) + 5 MW Data Cell (14 modules). Illustrative; final layout per site design.

GRID CELL AI LLC · Modular AI infrastructure · 5 MW Data + ~6 MW firm Power
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