

NVIDIA RTX PRO 5000 Blackwell 48GB vs NVIDIA RTX PRO 6000 Blackwell Server Edition

Side by side datacenter GPU specifications from the Flopper.io database.

OVERVIEW

	NVIDIA RTX PRO 5000 Blackwell 48GB	NVIDIA RTX PRO 6000 Blackwell Server Edition
FP32 TFLOPS	65.0	120.0
VRAM	48 GB	96 GB
Memory Bandwidth	1.3 TB/s	1.6 TB/s
TDP	300 W	600 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX PRO 5000 Blackwell 48GB peak TFLOPS (dense)	NVIDIA RTX PRO 6000 Blackwell Server Edition peak TFLOPS (dense)
FP64	—	—
FP32	65.0	120.0
TF32	—	234.0
BF16	—	—
FP16	—	—
FP8	—	—
FP6	—	—
FP4	1032.0	—
INT8	—	—

SPECIFICATIONS

	NVIDIA RTX PRO 5000 Blackwell 48GB	NVIDIA RTX PRO 6000 Blackwell Server Edition
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2025	2025
Form Factor	PCIe	PCIe

	NVIDIA RTX PRO 5000 Blackwell 48GB	NVIDIA RTX PRO 6000 Blackwell Server Edition
Memory Type	GDDR7	GDDR7
Interface Width	512-bit	512-bit
Interconnect	—	—
TDP	300 W	600 W
FP32 Efficiency	0.22 TFLOPS/W	0.20 TFLOPS/W