

NVIDIA RTX PRO 5000 Blackwell 48GB vs NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition

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

OVERVIEW

	NVIDIA RTX PRO 5000 Blackwell 48GB	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition
FP32 TFLOPS	65.0	109.7
VRAM	48 GB	96 GB
Memory Bandwidth	1.3 TB/s	1.8 TB/s
TDP	300 W	300 W

PERFORMANCE BY PRECISION

Precision	NVIDIA RTX PRO 5000 Blackwell 48GB peak TFLOPS (dense)	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition peak TFLOPS (dense)
FP64	—	1.7
FP32	65.0	109.7
TF32	—	219.5
BF16	—	438.9
FP16	—	438.9
FP8	—	877.9
FP6	—	—
FP4	1032.0	1755.7
INT8	—	877.9

SPECIFICATIONS

	NVIDIA RTX PRO 5000 Blackwell 48GB	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2025	2025

	NVIDIA RTX PRO 5000 Blackwell 48GB	NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition
Form Factor	PCIe	PCIe
Memory Type	GDDR7	GDDR7
Interface Width	512-bit	512-bit
Interconnect	—	—
TDP	300 W	300 W
FP32 Efficiency	0.22 TFLOPS/W	0.37 TFLOPS/W