

NVIDIA GeForce RTX 5050 8GB vs NVIDIA RTX PRO 6000 Blackwell Workstation Edition

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

OVERVIEW

	NVIDIA GeForce RTX 5050 8GB	NVIDIA RTX PRO 6000 Blackwell Workstation Edition
FP32 TFLOPS	13.2	126.0
VRAM	8 GB	96 GB
Memory Bandwidth	320 GB/s	1.8 TB/s
TDP	130 W	600 W

PERFORMANCE BY PRECISION

Precision	NVIDIA GeForce RTX 5050 8GB peak TFLOPS (dense)	NVIDIA RTX PRO 6000 Blackwell Workstation Edition peak TFLOPS (dense)
FP64	0.2	2.0
FP32	13.2	126.0
TF32	13.2	251.9
BF16	26.3	503.8
FP16	52.6	503.8
FP8	105.3	1007.6
FP6	—	—
FP4	210.5	2015.2
INT8	105.3	1007.6

SPECIFICATIONS

	NVIDIA GeForce RTX 5050 8GB	NVIDIA RTX PRO 6000 Blackwell Workstation Edition
Architecture	Blackwell	Blackwell
Process Node	4nm	4nm
Launch Year	2025	2025
Form Factor	PCIe	PCIe

	NVIDIA GeForce RTX 5050 8GB	NVIDIA RTX PRO 6000 Blackwell Workstation Edition
Memory Type	GDDR6	GDDR7
Interface Width	128-bit	512-bit
Interconnect	—	—
TDP	130 W	600 W
FP32 Efficiency	0.10 TFLOPS/W	0.21 TFLOPS/W