



# NVIDIA RTX PRO 6000 Blackwell Server Edition vs NVIDIA RTX PRO 6000 Blackwell Workstation Edition

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

## OVERVIEW

|                  | NVIDIA RTX PRO 6000 Blackwell Server Edition | NVIDIA RTX PRO 6000 Blackwell Workstation Edition |
|------------------|----------------------------------------------|---------------------------------------------------|
| FP32 TFLOPS      | 120.0                                        | 126.0                                             |
| VRAM             | 96 GB                                        | 96 GB                                             |
| Memory Bandwidth | 1.6 TB/s                                     | 1.8 TB/s                                          |
| TDP              | 600 W                                        | 600 W                                             |

## PERFORMANCE BY PRECISION

| Precision | NVIDIA RTX PRO 6000 Blackwell Server Edition peak TFLOPS (dense) | NVIDIA RTX PRO 6000 Blackwell Workstation Edition peak TFLOPS (dense) |
|-----------|------------------------------------------------------------------|-----------------------------------------------------------------------|
| FP64      | —                                                                | 2.0                                                                   |
| FP32      | 120.0                                                            | 126.0                                                                 |
| TF32      | 234.0                                                            | 251.9                                                                 |
| BF16      | —                                                                | 503.8                                                                 |
| FP16      | —                                                                | 503.8                                                                 |
| FP8       | —                                                                | 1007.6                                                                |
| FP6       | —                                                                | —                                                                     |
| FP4       | —                                                                | 2015.2                                                                |
| INT8      | —                                                                | 1007.6                                                                |

## SPECIFICATIONS

|              | NVIDIA RTX PRO 6000 Blackwell Server Edition | NVIDIA RTX PRO 6000 Blackwell Workstation Edition |
|--------------|----------------------------------------------|---------------------------------------------------|
| Architecture | Blackwell                                    | Blackwell                                         |
| Process Node | 4nm                                          | 4nm                                               |
| Launch Year  | 2025                                         | 2025                                              |

|                 | NVIDIA RTX PRO 6000 Blackwell Server Edition | NVIDIA RTX PRO 6000 Blackwell Workstation Edition |
|-----------------|----------------------------------------------|---------------------------------------------------|
| Form Factor     | PCIe                                         | PCIe                                              |
| Memory Type     | GDDR7                                        | GDDR7                                             |
| Interface Width | 512-bit                                      | 512-bit                                           |
| Interconnect    | —                                            | —                                                 |
| TDP             | 600 W                                        | 600 W                                             |
| FP32 Efficiency | 0.20 TFLOPS/W                                | 0.21 TFLOPS/W                                     |