

INDUSTRIAL AUTOMATION PRODUCT

80026-044-06-R

IGDPS 56 V DC / 20 V DC

Allen-Bradley 80026-044-06-R is the exact manufacturer-listed igdps 56 v dc / 20 v dc for the documented installed system.

| IDENTITY      | VERIFIED VALUE                       |
|---------------|--------------------------------------|
| Manufacturer  | Allen-Bradley                        |
| System family | Allen-Bradley PowerFlex 7000         |
| Part number   | 80026-044-06-R                       |
| Product role  | Accepts the documented 56 V DC input |
| Lifecycle     | Installed product record             |

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

Install the IGDPS only in the matching PowerFlex 7000 position. Record the original connector routing and supply relationships, inspect the associated gate-driver circuit and verify power-supply diagnostics before enabling the converter.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313  
EMAIL sales13@apterpower.com  
WEBSITE www.apterpower.com



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# Technical Specifications

Technical values below are limited to the named Allen-Bradley product record and directly applicable manufacturer documentation.

| PARAMETER      | VALUE   | PARAMETER      | VALUE          |
|----------------|---------|----------------|----------------|
| Component type | IGDPS   | Output voltage | 20 V DC        |
| Input voltage  | 56 V DC | Drive family   | PowerFlex 7000 |

## Verified Product Record

| DATA GROUP                 | VERIFIED VALUE                                                                                                                                                                                                                                |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installed host / carrier   | Allen-Bradley PowerFlex 7000                                                                                                                                                                                                                  |
| Primary system role        | Accepts the documented 56 V DC input                                                                                                                                                                                                          |
| Connection boundary        | Install the IGDPS only in the matching PowerFlex 7000 position. Record the original connector routing and supply relationships, inspect the associated gate-driver circuit and verify power-supply diagnostics before enabling the converter. |
| Controlled acceptance duty | PowerFlex 7000 gate-driver supply service                                                                                                                                                                                                     |

### ENGINEERING BOUNDARY

Confirm Allen-Bradley 80026-044-06-R, the complete PowerFlex 7000 or MV SMC Flex host identity, installed hardware execution, board or semiconductor position, connectors, wiring, grounding, cooling path, firmware or configuration where applicable, companion components and controlled commissioning results before service.

## Pre-Installation Checks

|   |                                                                         |   |                                                                  |
|---|-------------------------------------------------------------------------|---|------------------------------------------------------------------|
| 1 | Confirm Allen-Bradley 80026-044-06-R and the 56 V DC / 20 V DC marking. | 2 | Isolate the drive and prove all stored energy discharged.        |
| 3 | Use ESD controls and protect the IGDPS connectors.                      | 4 | Record input, output and gate-driver connections before removal. |

## Documented Service Record

| RECORD ITEM        | REQUIRED ENTRY                   |
|--------------------|----------------------------------|
| As-found article   | 80026-044-06-R                   |
| Installed host     | Allen-Bradley PowerFlex 7000     |
| Connection record  | Capture before removal           |
| Controlled release | Diagnostics and functional proof |

# System Role and Architecture

Allen-Bradley 80026-044-06-R is the exact manufacturer-listed igdps 56 v dc / 20 v dc for the documented installed system.

**FUNCTION 1**  
Accepts the documented 56 V DC input

**FUNCTION 2**  
Provides the documented 20 V DC output

**FUNCTION 3**  
Supports the PowerFlex 7000 isolated gate-driver supply path

**FUNCTION 4**  
Maintains exact power-supply spare-part identity

## Matched System Components

| NO. | DOCUMENTED COMPONENT / ROLE                                                                                                                                                                                                                   |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Allen-Bradley PowerFlex 7000                                                                                                                                                                                                                  |
| 2   | 56 V DC                                                                                                                                                                                                                                       |
| 3   | PowerFlex 7000 gate-driver supply service                                                                                                                                                                                                     |
| 4   | Install the IGDPS only in the matching PowerFlex 7000 position. Record the original connector routing and supply relationships, inspect the associated gate-driver circuit and verify power-supply diagnostics before enabling the converter. |

## System Integration Record

| INTEGRATION ITEM       | DOCUMENTED ROLE                                                                                                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host identity          | Allen-Bradley PowerFlex 7000                                                                                                                                                                                                                  |
| Interface role         | Accepts the documented 56 V DC input                                                                                                                                                                                                          |
| Field / power context  | Install the IGDPS only in the matching PowerFlex 7000 position. Record the original connector routing and supply relationships, inspect the associated gate-driver circuit and verify power-supply diagnostics before enabling the converter. |
| Commissioning evidence | Verify supply values and drive diagnostics before release.                                                                                                                                                                                    |

## Installation and Connection Checks

1Inspect adjacent wiring and the installed supply position.

2Reconnect only to the documented 56 V DC and 20 V DC paths.

3Energize through the approved PowerFlex 7000 sequence.

4Verify supply values and drive diagnostics before release.

### MANUFACTURER SOURCE RECORD

PowerFlex 7000 Medium Voltage AC Drives Troubleshooting Guide  
7000-TG002L-EN-P, February 2020

# Applications and Engineering Context

**PowerFlex 7000 gate-driver supply service**  
  
Restores the documented 56 V DC to 20 V DC isolated supply function.

**Power-stack maintenance**  
  
Supports controlled inspection of the gate-driver power path.

**Drive repair verification**  
  
Enables voltage and diagnostic checks before converter operation.

**Planned spare replacement**  
  
Keeps the exact PowerFlex 7000 power-supply article identity.

## TECHNICAL NOTE

Install the IGDPS only in the matching PowerFlex 7000 position. Record the original connector routing and supply relationships, inspect the associated gate-driver circuit and verify power-supply diagnostics before enabling the converter.

## Model-Specific Acceptance Evidence

| CHECK              | ACCEPTANCE CONDITION                                       |
|--------------------|------------------------------------------------------------|
| Identity           | 80026-044-06-R recorded                                    |
| Host / carrier     | Allen-Bradley PowerFlex 7000                               |
| Physical interface | Accepts the documented 56 V DC input                       |
| Configuration      | Energize through the approved PowerFlex 7000 sequence.     |
| Functional proof   | Verify supply values and drive diagnostics before release. |

## IMPORTANT NOTICE

Confirm Allen-Bradley 80026-044-06-R, the complete PowerFlex 7000 or MV SMC Flex host identity, installed hardware execution, board or semiconductor position, connectors, wiring, grounding, cooling path, firmware or configuration where applicable, companion components and controlled commissioning results before service.

## Controlled Release Summary

| RELEASE ITEM     | MODEL-SPECIFIC CONDITION                                   |
|------------------|------------------------------------------------------------|
| Article identity | 80026-044-06-R                                             |
| Approved role    | PowerFlex 7000 gate-driver supply service                  |
| Final validation | Verify supply values and drive diagnostics before release. |

# Engineering Precautions

- 1

Confirm Allen-Bradley 80026-044-06-R and the 56 V DC / 20 V DC marking.
- 2

Isolate the drive and prove all stored energy discharged.
- 3

Use ESD controls and protect the IGDPS connectors.
- 4

Record input, output and gate-driver connections before removal.
- 5

Inspect adjacent wiring and the installed supply position.
- 6

Reconnect only to the documented 56 V DC and 20 V DC paths.
- 7

Energize through the approved PowerFlex 7000 sequence.
- 8

Verify supply values and drive diagnostics before release.

## Related Products on Apter Power

| MODEL                     | SYSTEM ROLE           | APTER POWER PAGE                                    |
|---------------------------|-----------------------|-----------------------------------------------------|
| Allen-Bradley 1771-WHFB   | Allen-Bradley product | <a href="#">View Allen-Bradley 1771-WHFB page</a>   |
| Allen-Bradley 1771-PS7    | Allen-Bradley product | <a href="#">View Allen-Bradley 1771-PS7 page</a>    |
| Allen-Bradley 1784-PCMC1  | Allen-Bradley product | <a href="#">View Allen-Bradley 1784-PCMC1 page</a>  |
| Allen-Bradley 1771-SDN    | Allen-Bradley product | <a href="#">View Allen-Bradley 1771-SDN page</a>    |
| Allen-Bradley 1771-NC6    | Allen-Bradley product | <a href="#">View Allen-Bradley 1771-NC6 page</a>    |
| Allen-Bradley 1771-OQ16   | Allen-Bradley product | <a href="#">View Allen-Bradley 1771-OQ16 page</a>   |
| Allen-Bradley 1784-PM16SE | Allen-Bradley product | <a href="#">View Allen-Bradley 1784-PM16SE page</a> |
| Allen-Bradley 1794-TB3S   | Allen-Bradley product | <a href="#">View Allen-Bradley 1794-TB3S page</a>   |

## MANUFACTURER SOURCE RECORD

PowerFlex 7000 Medium Voltage AC Drives Troubleshooting Guide  
7000-TG002L-EN-P, February 2020

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