

# 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.

|       |                |             |                                      |
|-------|----------------|-------------|--------------------------------------|
| BRAND | Allen-Bradley  | FAMILY      | Allen-Bradley PowerFlex 7000         |
| PART  | 80026-044-06-R | SYSTEM ROLE | Accepts the documented 56 V DC input |

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80026-044-06-R

### MANUFACTURER SOURCE RECORD

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

# Product Overview

## SYSTEM FUNCTION

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

## System Components

| COMPONENT           | DOCUMENTED ROLE                                                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host / carrier      | Allen-Bradley PowerFlex 7000                                                                                                                                                                                                                  |
| Primary interface   | Accepts the documented 56 V DC input                                                                                                                                                                                                          |
| Engineering 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 duty  | Verify supply values and drive diagnostics before release.                                                                                                                                                                                    |

## 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.

# Technical Data

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

## Related Products on Apter Power

| MODEL                     | SYSTEM ROLE           | APTER POWER PAGE                                    |
|---------------------------|-----------------------|-----------------------------------------------------|
| Allen-Bradley 1784-KTXD   | Allen-Bradley product | <a href="#">View Allen-Bradley 1784-KTXD page</a>   |
| Allen-Bradley 1784-KTX    | Allen-Bradley product | <a href="#">View Allen-Bradley 1784-KTX page</a>    |
| Allen-Bradley 1784-KTCX15 | Allen-Bradley product | <a href="#">View Allen-Bradley 1784-KTCX15 page</a> |
| Allen-Bradley 1775-S4B    | Allen-Bradley product | <a href="#">View Allen-Bradley 1775-S4B page</a>    |
| Allen-Bradley 1775-S4A    | Allen-Bradley product | <a href="#">View Allen-Bradley 1775-S4A page</a>    |
| Allen-Bradley 1775-MED    | Allen-Bradley product | <a href="#">View Allen-Bradley 1775-MED page</a>    |
| Allen-Bradley 1775-MEA    | Allen-Bradley product | <a href="#">View Allen-Bradley 1775-MEA page</a>    |
| Allen-Bradley 1775-LX     | Allen-Bradley product | <a href="#">View Allen-Bradley 1775-LX page</a>     |

### 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.

# Applications and Precautions

## Common Applications

### PowerFlex 7000 gate-driver supply service

Restores the documented 56 V DC to 20 V DC isolated supply function.

### Drive repair verification

Enables voltage and diagnostic checks before converter operation.

### Power-stack maintenance

Supports controlled inspection of the gate-driver power path.

### Planned spare replacement

Keeps the exact PowerFlex 7000 power-supply article identity.

## Product 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.

## 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.

| ACCEPTANCE CHECK   | REQUIRED EVIDENCE                                          |
|--------------------|------------------------------------------------------------|
| Identity           | 80026-044-06-R                                             |
| Configuration      | Energize through the approved PowerFlex 7000 sequence.     |
| Functional release | Verify supply values and drive diagnostics before release. |

## Engineer FAQ

### Q1 What voltage conversion is documented for Allen-Bradley 80026-044-06-R?

The official PowerFlex 7000 record identifies a 56 V DC input and 20 V DC output IGDPS.

### Q3 Why must Allen-Bradley 80026-044-06-R not be selected only by board appearance?

Its exact catalog number and 56 V DC / 20 V DC execution must match the installed PowerFlex 7000 supply position.

### Q5 How is Allen-Bradley 80026-044-06-R protected during handling?

Use ESD-safe controls and protect the board connectors and gate-driver supply interfaces from contamination or force.

### Q7 Which functional result is expected from Allen-Bradley 80026-044-06-R?

During controlled energization, verify the documented supply behavior and applicable PowerFlex 7000 diagnostics before enabling the converter.

### Q2 Which supply path should be traced before replacing Allen-Bradley 80026-044-06-R?

Trace and label the 56 V DC input, 20 V DC output and associated isolated gate-driver supply connections.

### Q4 What should be measured before disconnecting Allen-Bradley 80026-044-06-R?

After safe isolation, record the assigned input and output paths and any approved diagnostic readings for the installed IGDPS position.

### Q6 What wiring check is specific to Allen-Bradley 80026-044-06-R?

Confirm that the documented 56 V DC source and 20 V DC destination are restored to the original labeled connections.

### Q8 What service record should accompany Allen-Bradley 80026-044-06-R?

Retain the catalog, position, connection, input/output verification and drive-diagnostic results.

## MANUFACTURER SOURCE RECORD

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