

TPDFlex AC/DC CONVERTERS

A Full Line of
High-Performance
Solutions

Industrial motors
Commercial and
appliance motors
Automation
Digital and
systems
Energy
Transmission and
distribution
Coatings



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Description

WEG TPDFlex is designed to ensure full continuity for applications based on the PowerFlex® DC drive, offering a smooth and straightforward transition.

Enabled by Allen-Bradley® Technologies, it maintains the familiar mechanical footprint, firmware approach, and integration model of the PowerFlex® DC platform.

With Premier Integration capabilities, the HIM interface and interaction with Logix controllers remain unchanged, ensuring compatibility, reliability, and seamless operation.



WEG TPDFlex DC drives and stand-alone regulators are designed for demanding stand-alone, coordinated drive control and drive system applications. They are a great choice for DC motor applications and retrofits up to 6000 Hp / 4000 kW. TPDFlex DC drives deliver highly functional, cost-effective drive and control solutions, and are easily configured for most applications.

Drive modules are available from 1.2...1044 kW / 1.5...1400 Hp at 200...690 Vac in regenerative configurations.

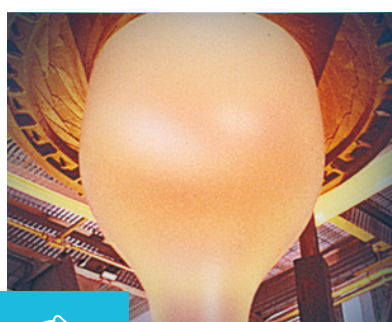
Standard hardware includes an open type enclosure, armature converter, regulated field converter for field weakening or economy applications, a regulator with integrated DPI functionality, DC tachometer and encoder capability.

Applications

The **TPDFlex series** includes a variety of standard and user-customizable functions tailored to the needs of various industries.



Pulp and paper



Plastic processing



Hoisting for mining

Integrated installation

- Design incorporates proven noise and voltage suppression characteristics, reducing installation concerns for noise-sensitive environments
- Pull-apart control terminal blocks allow for easy wiring and quick disconnect
- The flexible feedback and communication options provide an effective integration solution
- Use of an additional option module provides extensive I/O for installation flexibility, including up to 12 digital inputs and 8 outputs plus 2 relay outputs as well as 5 analog inputs and 2 analog outputs. Standard I/O is also ample and listed on page 7
- Optimized global voltage settings designed to worldwide standards allow quick set-up anywhere in the world
- DC Tachometer and encoder feedback capabilities are embedded into the control circuitry as a standard feature in the DC drive, saving space and providing additional functionality





Premier integration

For simplified drive startup and reduced development time, PowerFlex AC and TPDFlex DC drives can be configured with Studio 5000 Logix Designer® software. This single software approach helps reduce programming time, ease startup and commissioning and streamline diagnostics while still allowing stand-alone drive software tool use on the factory floor.

Easy to use

- Full-featured LCD Human Interface Module (HIM) with multi-line and multi-lingual display simplifies programming
- Device Peripheral Interface (DPI™) capability fully integrated into the regulator allows the DC drive to be fully compatible with PowerFlex architecture class AC drive communication cards, HIMs and software tools
- Tools such as Connected Components Workbench™ (CCW) or Studio 5000™ Software assist with programming, configuration, monitoring and troubleshooting
- TPDFlex and PowerFlex drives offer internal communication options that help you cost-effectively assemble highly integrated applications
- Status indicators for all internal communications options are visible on the cover for easy set-up and monitoring of communications
- Flash upgradable – firmware can be updated any time via DPI

Ratings and specifications

Input specifications	<ul style="list-style-type: none"> ■ 3-phase voltage: 230 V / 460 V / 575 V / 690 V ■ Frequency: 50 and 60 Hz +/- 5%
Output specifications	<ul style="list-style-type: none"> ■ DC output voltage: Adjustable based AC input ■ Overload current: 150% for 60 seconds, 200% for 3 seconds
Standard I/O	<ul style="list-style-type: none"> ■ 8 digital inputs ■ 4 digital outputs ■ 3 analog inputs ■ 2 analog outputs ■ 2 relay outputs
Ambient temperature limit for enclosure types	<ul style="list-style-type: none"> ■ IP20 / NEMA / UL Type Open = 50°C (122°F) ■ 55°C (131°F) with derating
Marks	   

230 Vac, 3-phase

Drive Output Rating			
Normal Duty kW	Normal Duty Hp	Amps	Frame Size
1.2	1.5	7	A
1.5	2	9	A
2.2	3	12	A
3.7	5	20	A
5.5	7.5	29	A
7.5	10	38	A
11	15	55	A
15	20	73	A
18.5	25	93	A
22	30	110	A
30	40	146	B
37	50	180	B
45	60	218	B
56	75	265	B
75	100	360	B
93	125	434	B
112	150	521	C
149	200	700	C
186	250	875	D
224	300	1050	D

575 Vac, 3-phase

Drive Output Rating			
Normal Duty kW	Normal Duty Hp	Amps	Frame Size
37	50	67.5	B
56	75	101.3	B
75	100	135	B
149	200	270	B
224	300	405	B
298	400	540	C
373	500	675	C
447	600	810	D
597	800	1080	D
671	900	1215	D
746	1000	1350	D
932	1250	1668	D

460 Vac, 3-phase

Drive Output Rating			
Normal Duty kW	Normal Duty Hp	Amps	Frame Size
1.5	2	4.1	A
2.2	3	6	A
3.7	5	10	A
5.5	7.5	14	A
7.5	10	19	A
11	15	27	A
15	20	35	A
18.5	25	45	A
22	30	52	A
30	40	73	A
37	50	86	A
45	60	100	A
56	75	129	A
75	100	167	B
93	125	207	B
112	150	250	B
149	200	330	B
187	250	412	B
224	300	495	C
298	400	667	C
373	500	830	D
447	600	996	D
552	700	1162	D
597	800	1328	D
671	900	1494	D

690 Vac, 3-phase

Drive Output Rating			
Normal Duty kW	Normal Duty Hp	Amps	Frame Size
298	400	452	C
373	500	565	C
447	600	678	D
552	700	791	D
597	800	904	D
671	900	1017	D
746	1000	1130	D
820	1100	1243	D
932	1250	1413	D
1044	1400	1582	D

Approximate dimensions mm [in]			
Frame	Width	Height	Depth
A	267 [10.5]	359 [14.0]	287 [11.3]
B	311 [12.2]	388 [15.3]	350 [13.8]*
C	521 [20.5]	511 [20.1]	416 [16.4]
D	711 [28.0]	1448 [57.0]	559 [22.0]

[*] Depth for 2 smallest frame B drives. Other frame B drives have a depth of 380 (1.5).



Do you need help?

- This drive will be available exclusively through **Allen-Bradley** distributors and **Rockwell Automation** drive systems. If there are any question, please contact your local Allen-Bradley distributor or Rockwell Automation sales office.
- Support is offered by the **Rockwell Automation TechConnect** services, field service teams, product repair services and spare part availability.

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	rok.auto/support
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Technical Documentation Center	Quickly access and download technical specifications, installation instructions, and user manuals.	rok.auto/techdocs
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc
Distributor Partner Locator	Rockwell Automation partners with best-in-class partners worldwide to offer first-rate solutions for your business challenges. Search our Partner-Network database and connect with a partner today.	rockwellautomation.com/en-us/sales/partner-locator

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