

D800

This evolution paves the way for our future.

FR-D800 Series

Schedule for release
October 2025

**Addition of 11K and 15K Models
for Three-Phase 200/400 V Class Inverters**



FR-D820-15K-580

FR-D840-15K-295

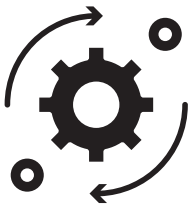
The FR-D800 series inherits the advantages of the FR-D700 series: Easy to choose, easy to use, and environmentally friendly next-generation compact inverters.

Product
video



Three Reasons to Choose the D800

Easy operation with compact body—just choose the FR-D800 inverter.



**Revolution in
ease of selection**



FR-D700
Easy operation
with compact body

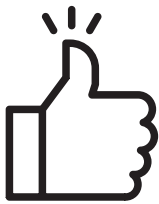


FR-F700PJ
Inverter for air conditioning

Integrated

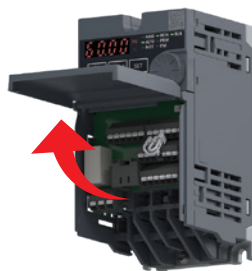


FR-D800
Compact & easy-to-use
next generation inverter



**Quest
for ease of use**

Simplified and quicker wiring



**New flip-type
front cover**

(all capacity models)

- Eliminates the need for screw tightening
- Prevents incorrect use of the wrong cover



**Wiring cover
integrated into the
inverter**

(3-phase 200 V: 0.75K or lower,
3-phase 400 V: 1.5K or lower,
1-phase 100 V: 0.4K or lower,
1-phase 200 V: 0.75K or lower)

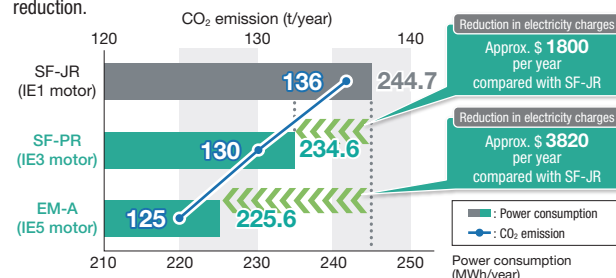
- Reduces the cover removal/reinstallation work

Eco-friendly and user-friendly



**Advanced
environmental
performance**

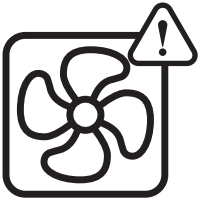
Supports high-efficiency motor drives, contributing to energy savings and CO₂ reduction.



The energy-saving effect and CO₂ emission reduction can be monitored and output, contributing to the visualization of these effects.



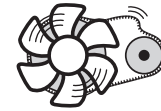
Many Other Advantages



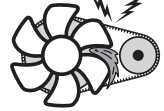
Predicts faults and supports preventive maintenance

Load characteristics measurement function

- Stores the load characteristics of the normal state and compares them with the current load state.
- When a mechanical fault such as clogging of the filter occurs, the inverter outputs a warning or shuts off the output to prevent system damage.



Belt looseness
(decreased load)



Dust clogging
(increased load)

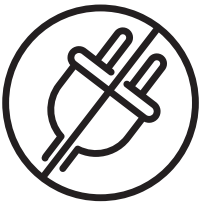
Warning or output shutoff



Supports the rapid investigation of the cause of problems

Graph function and trace function (supported by FR Configurator2)

- Displays the monitor data of the inverter graphically.
 - Sending the data via e-mail enables quick diagnosis and analysis even when a problem occurs at a remote site.
- This function enables efficient maintenance of equipment.

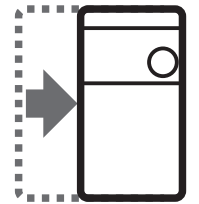
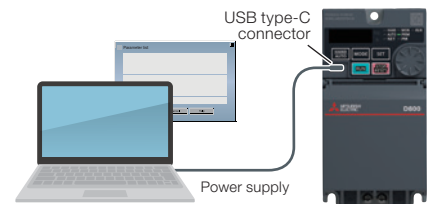


Set parameters without turning ON the main circuit power supply

Supports USB type-C

- USB bus power connection (power supplied from a personal computer or other devices) is possible.
- Parameters can be set with FR Configurator2 without needing to power the main circuit. You can set parameters straight out of the box.

* The maximum SCCR should be 500 mA. A PU connector cannot be used during USB bus power connection.



Effective solution for downsizing of the enclosure

Downsizing / space saving

- Even smaller size (width) for some capacity models (compared to the FR-D700)
- The 200 V 3.7K inverters, in particular, allow three units to be installed in the installation space of two conventional models, saving space in the enclosure.



* Example of the FR-D820-3.7K-165: values differ depending on the capacity.

FR-D 8 2 0 - 0.1 K - 008

Product features



Symbol	Voltage class
1	100 V
2	200 V
4	400 V

Symbol	Input power
None	Three-phase
S	Single-phase
W	Single-phase*1

Symbol	Rated capacity / rated current
0.1K-008 to 15K-580 (200 V class)	Applicable motor capacity (ND) (kW) - Inverter rated current (ND) (A)*2

Symbol	Circuit board coating*3
None	Without coating
-60	With coating

Voltage class and applicable capacity

Power supply / voltage class	Model	Rated capacity	0.1	0.2	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15
Three-phase 200 V	FR-D820-[]K-[]	Rated current	008	014	025	042	070	100	165	238	318	450	580
			●	●	●	●	●	●	●	●	●	●	●
Three-phase 400 V	FR-D840-[]K-[]	Rated current	—	—	012	022	037	050	081	120	163	230	295
					●	●	●	●	●	●	●	●	●
Single-phase 200 V	FR-D820S-[]K-[]	Rated current	008	014	025	042	070	100	—	—	—	—	—
			●	●	●	●	●	●					
Single-phase 100 V	FR-D810W-[]K-[]	Rated current	008	014	025	042	—	—	—	—	—	—	—
			●	●	●	●							

●: Released

*1: Double voltage rectification / 200 V output

*2: "0.1K-008" means "0.1 kW, 0.8 A", and "15K-580" means "15 kW, 58.0 A".

*3: Conforming to IEC 60721-3-3:1994 3C2/3S2

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