Lineup Overview

Command Unit (user interface module)





Navigator (bundled application)
Torque instruction control, anomaly determination, error logging
CAN/CANFD 8ch GPI 4ch GPO 4ch Thermistor 4ch, Ethernet 1ch
W74 × H36 × D107
0.25

Torque instruction control, anomaly determination, error logging

Controller

(PWM, rectangular wave control module)





RECU22

Conti	rol protocols	PWM, overmodulation, rectangular wave	PWM, overmodulation, rectangular wave	
Carrier	frequency (Hz)	50k	10k	
External	dimensions (mm)	To be announced	W158 × H75 × D300	
W	eight (kg)	To be announced	1	
Instruc	ction protocol	Torque, speed, current	Torque, speed, current	
Position (detection protocol	Resolver	Resolver	

Driver (motor drive module)









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	(high speed model)	(low capacity model)	(high capacity model)	(high capacity, high voltage model)
Maximum drive current (Arms)	600 (*with derating)	300	800 (*with derating)	800 (*with derating)
Maximum input voltage (V)	800	750	750	1000
Carrier frequency (Hz)	50k	10k	10k	10k
External dimensions (mm)	To be announced	W350 × H145 × D389 (*excluding protrusions)	W350 × H250 × D770 (*excluding protrusions)	W350 × H250 × D770 (*excluding protrusions)
Weight (kg)	To be announced	16	75	75

4 Options



(automatic tuning application)

Automatically identify RECU

Dedicated logic easily produces

drive suited to the motor within a







(parameter editing application) No-code version of software compatible

with tests and motors enabling the direct editing of the RECU parameters. Editing only involves modifying values, and can be done by anyone.





Pattern Operation Tool

(torque pattern automation application)

Automatically switch control and link to existing equipment based on elapsed time or motor state.



MG-switch

(motor switching device)

Reduce control signal switching time by placing the unit between several controllers and inverters.

Engineering support will be provided on a case-by-case basis for other models. Feel free to contact us at the following address. xev-sales@ml.toyota-td.jp





TOYOTA TECHNICAL DEVELOPMENT CORPORATION

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■Weekdays from 9 AM to 5 PM (Japan time, except between 12 and 1 PM)

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Translation and

interpretation





Vehicle and human body measurement



Control and physical phenomena visualization



Facility installation support

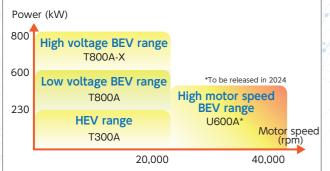


TOYOTA TECHNICAL DEVELOPMENT CORPORATION

SELECTION

Lineup suited to diverse needs

- Choose from four series of drivers matched to the evaluation characteristics of the HEV and BEV ranges.
- Supports the 40,000 rpm high motor speed range.



SMALL

The most compact design in the industry enable easy installation and replacement.

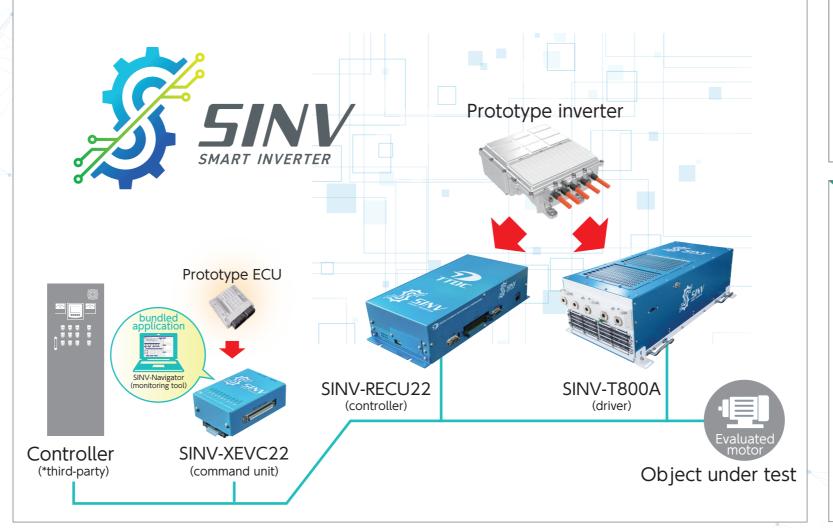
- Minimum installation area: 0.27 m, weight: 75kg
- Offers a flexible layout that can be set in narrow spaces.
- Simply replace an individual unit when changing the specifications.



Overall Visualization of the SINV Smart Inverter

Operate the motor in any way you want.

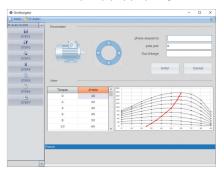
Supports evaluation for electric-powered vehicles



SIMPLE

Drive the evaluated motor at optimal efficiency.

- Quickly and easily achieve optimal motor drive thanks to the torque map automatically generated by the automatic tuning application.
- Start evaluations easily simply by preparing the evaluation motor.



SERVICE

Full range of maintenance support and after-sales service

- Swift support provided by a specialized team.
- Instant problem solving through remote support via email, phone, or online conferencing.



Scenario 1: Development Bench bject under test * Coolant circulate Evaluated moto Load motor Controller SINV-XEVC22 SINV-RECU22 SINV-T series Prepared by the customer Set up by TTDC Direct current power source (BTS This system configuration applies to the following examples: ■Motor performance, durability, and efficiency tests ■Motor drive ■Lubricants testing ■NV testing ■ and more-

