

**RANGE EXTENDER  
(A GENERATOR TO BE BUILT IN A DRONE)**

# GT33REU

Photo shown Prototype



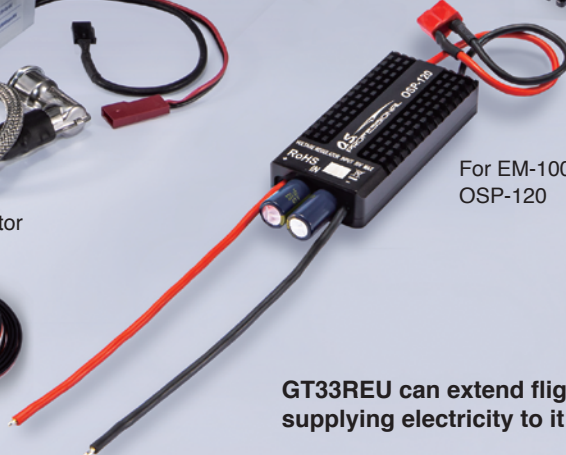
SGC-1095HV  
Starter generator control



IG-08A Ignitor



EM-100 engine  
management system



For EM-100 Regulator  
OSP-120



**GT33REU can extend flight time of drone  
supplying electricity to it during flight.**

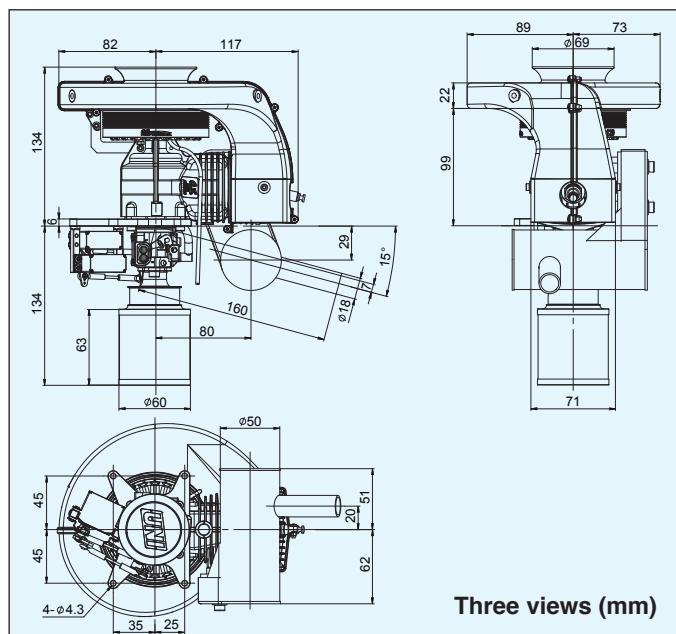
## ■ Features

- It equipped with a starter motor built in a generator.
- The integrated system (engine/starter motor/generator) can reduce total weight. (generator unit: 2,200g)
- Our original system (patent pending) integrates an ESC for a starter motor and a regulate rectifier for a generator for downsizing and weight saving. (starter generator controller = 210g, accessories = 440g)
- By the governor function of EM-100 engine management system, which is standard accessory, the engine can be controlled automatically according to the load.

## SPECIFICATIONS

MODEL	GT33REU
USAGE	range extender for drone
CONSTANT OUTPUT RATING	1.0kw
VOLTAGE	48V
WEIGHT	2,640g (body 2,200g, accessories 440g)
STARTING METHOD	by a built-in starter motor
FUEL	Mixed gasoline with 2-stroke oil (25:1)
TYPE OF ENGINE	air-cooled, 2-stroke, reciprocating single cylinder engine
DISPLACEMENT (BORExSTROKE)	33cc (36 x 32.4mm)
CARBURETOR	diaphragm type, Walbro WT
SPARK PLUG	M 10mm (NGK CM-6 type)
OPERATING ENVIRONMENT	atmospheric temperature: -10 ~ 40°C, altitude: 0 ~ 3,000m
ENDURANCE TIME	Approx. 500 hours (overhauling every 100 hour operation)

The specifications are subject to alteration for improvement without notice.



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## GT33REU Mounted in a Drone



## GT33REU block diagram

