

## 2438-100 (AC Generator Control UNIT)

1. Nomenclature/ Part No/ GIG No. - **2438-100 / Ac Generator Control UNIT / 1392335**
2. Year of Procurement/ Source. – 01 APR 2013 / Rosoboron Export
3. Fleet/ Sub System/Wpn System. –**Mi-17V5 / 2438-100**
4. Technical Applicability/ Broad Purpose TO CONTROL THE GENERATOR POWER.
5. Technical Specifications (attach as separate sheets)

The RM-355G Shock mounting frames, with BRN-120T5A voltage regulator and BZUNP355G units for GEN-1 and GEN-2 are mounted on them, are fitted above port battery compartment near ADC and right rack respectively (Ref fig 2.2). The generation system ensures the following:

- (i) Automatically connects generator to its busbar when generator output reaches to 108-114 V( 370-380 Hz ).
- (ii) Maintains the output of generator within the range of 115-119 V(380-420Hz) in conjunction with voltage regulator BRN120T5A.
- (iii) Automatically disconnects generator from its busbar when generator output falls below  $104 \pm 3V$  with the time lag of 6+or-0.9 sec and signal for ice protection system is switched off after a time lag of 2.0 + 0.3 sec in Ir-reversible order.
- (iv) Automatically disconnects generator from its busbar when generator output exceeds  $126 \pm 3V$  with the time lag of 0.4+ 0.1 sec in Irreversible order.
- (v) Automatically disconnects generator from its busbar when the generator operates alone and there are some asymmetric linear voltages (Difference between phase voltage) with excess of 20-40V, with time lag of 4.0 + 0.6 sec in Ir-reversible order.
- (vi) Automatically disconnects generator from its busbar when frequency falls below 361-349 Hz without time lag in reversible order.

6. Publication Details (attach as separate sheets).

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7. Photograph of Equipment.



8. Brief Description. TO CONTROL THE GENRATOR POWER.

9. Classification of Equipment- LRU/Testers/ Ground Equipment/ Role Equipment (Electrical, Electronics, Mechanical, Software based etc.). **LRU/ Electrical**

10. Previous Repair History- **OEM Supplied**

11. Criticality (Priority I, II or III). **-I**

12. Requirement: Repair or Indigenisation or both? **-Indigenisation**

13. Quantity Required (One time/ Annual). **Annual**

14. Sample Availability. **nil**

15. Scale/ Deficiency. **rotable used in MI-17 V5 HPTER**

16. If deficient - How deficiency is being plugged? **-N/A**

17. SPOC details item/ fleet wise. **SPE (IDS)**

18. Draft QTS with major testing requirement (If already designed) **-Not Applicable**

19. Dimensions **.45X200X50mm**

20. Weight **500gm**

21. Any Other Relevant Information. **No**