

Engine Type : ME-C / ME-B

Expected service life of each parts on the PSU (Power Supply Unit)

We have received information from the PSU manufacturer regarding the recommended replacement interval of the parts in the PSU (Power Supply Unit) used on the Main Engine.

In case of ME-C/ME-B engine, the control system is operated by the power supplied through the PSU. We recommend doing the maintenance of the PSU periodically to prevent problems such as Main Engine start failure due to PSU failure in advance. The life of the parts in the PSU is highly dependent on the ambient temperature. Dust and other particles can also affect the life of the parts in the PSU. There are mainly two types of PSU, made by TERASAKI ELECTRIC CO., LTD and Hitachi Zosen Corporation.

Please distinguish between them by the PSU instruction manual, the appearance of the control panel (see Table 1), etc. PSU may be arranged by the shipyard.

If you have any questions on the suppliers, subject parts of PSU, etc., please contact us.

Table 1 Appearance of the control panel of PSU

	TERASAKI ELECTRIC CO., LTD	Hitachi Zosen Corporation
Control panel		
Switch	Yes (see red frame)	No

Table 2 Recommended replacement interval of the parts made by TERASAKI ELECTRIC CO., LTD

Parts	Expected service life (Ambient temperature)	Remarks
AVR (HWS1000-24)	3.5~4.5 years(60°C)	See Fig. 1
AC/DC converter(HWS15-24/A)	3.5~4.5 years(60°C)	See Fig. 1
Cooling fan for AVR (HWS1000-24)	3.5~4.5 years(50~60°C)	See Fig. 2
Battery (MSE-100-6(100AH))	7~9 years(25°C) 3.5~4.5 years(35°C)	See Fig. 3

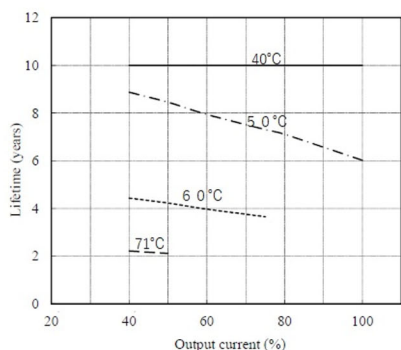


Fig. 1 Expected service life of AVR and AC/DC converter

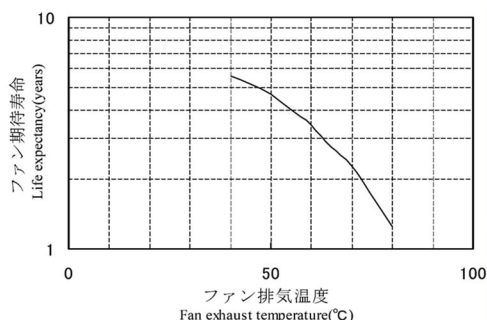


Fig. 2 Expected service life of cooling fan for AVR

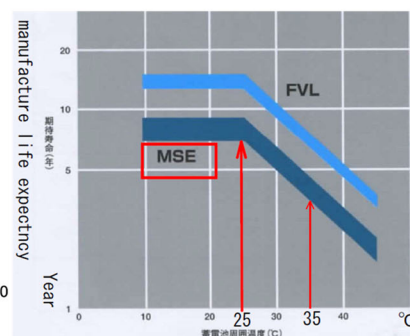


Fig. 3 Expected service life of battery

Table 3 Recommended replacement interval of the parts made by Hitachi Zosen Corporation

Parts	Expected service life (40°C)	Expected service life (60°C)
AVR or PS (QUINT-PS/1AC/24DC/40)	10 years	2.6 years
UPS (QUINT-UPS/24DC/24DC/40)	16 years	4.2 years
Battery unit	2.5~3 years	
DC/DC converter (QUINT4-PS/24DC/24DC/10/PT)	21 years	5.2 years
DC/DC converter (QUINT4-PS/24DC/24DC/5/PT)	30 years	7.4 years
DC/DC converter (QUINT-PS/24DC/24DC/10)	10 years	2.5 years
DC/DC converter (QUINT-PS/24DC/24DC/5)	13.5 years	3 years
CIRCUIT BREAKER (BW50EAG-2P020Y) CIRCUIT BREAKER (BW50SAS-2P050) CIRCUIT PROTECTOR (CP30FM-2P015 DC24V 15A) CIRCUIT PROTECTOR (CP30FM-2P003 DC24V 3A)	15 years	

For more information or purchase order, please contact our representative or following our sales office.

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