

A.C. SUPPLY OUTFIT DUC

SUMMARY OF DATA

INPUT 110 or 220 volts D.C. 8 kW
OUTPUT 180 volts 500 c/s single phase 5 kW

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight
4709A	Alternator Motor 5 kW 180V 500 c/s, 110V D.C. Supply	1	1' 6½"	2' 7½"	1' 6"	700 lb
W3742 or 4710/A/S	Starter Contactor type for 7½ H.P. motor 110 volts	1	Fitted on Board 2AG			60 lb
4710/A/S	Alternator Motor 5 kW 180V 500 c/s, 220V D.C. Supply	1	1' 6½"	2' 7½"	1' 6"	700 lb
W3743	Starter Contactor type for 7½ H.P. motor 220 volts	1	Fitted on Board 2AG			60 lb
W3563	Board 2AG Supply 5 kW 110/220V Supply Lower	1	} 5' 6"	1' 9"	1' 1½"	320 lb
W3472/A	Board 2AG Supply 5 kW 110/220V Supply Upper	1				

WHERE FITTED

1. With Type 277/P/Q when fitted alone in small ships.
2. In E.M.R's in cruisers and above for Type 275.

HANDBOOK

B.R.1620, B.R.1769

ESTABLISHMENT LIST

E599

INSTALLATION SPECIFICATION

B336

A.C. SUPPLY OUTFIT DUE

SUMMARY OF DATA

INPUT

110 or 220 volts D.C. 9 kW

OUTPUT

(a) 180 volts 500 c/s single phase 5 kW

(b) 24 volts D.C. 96 watts (from Patt. W3275 Rectifier Unit Design N)

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight
4709/A	Alternator Motor 5 kW 180V 500 c/s, 110V Supply	2	1' 6½"	1' 6"	2' 7½"	670 lb each
W3742A) W4339) or 4710/A	Starter Contactor Type for 7½ H.P. Motors 110V D.C.	1	Fitted on Board 2AG Supply Lower			50 lb
4710/A	Alternator Motor 5 kW 180V 500 c/s, 220V Supply	2	1' 6½"	1' 6"	2' 7½"	670 lb each
W3743) W4340) and W3475/A	Starter Contactor Type for 7½ H.P. Motors 220V D.C.	1	Fitted on Board 2AG Supply Lower			50 lb
W3475/A	Board 2AG Distributing 180V 500 c/s, A.C. Supply 110/220V D.C. Supply	x	1' 7"	9½"	4½"	50 lb
W3473/A	Board 2AG Supply 5 kW 110/220V Supply Upper	1	5' 6"	1' 9"	1' 1½"	332 lb
W3563/A	Board 2AG Supply 5 kW 110/220V Supply Lower	1				
W3275	Rectifier Unit, Design N	x	1' 6"	10"	8"	50 lb
W3476/A	Switch (Drum Type) Machine C.O.	1	1' 10"	1' 2½"	9½"	50 lb

x One fitted for each radar set supplied from outfit with a maximum of two.

WHERE FITTED

With Types 274 and 275 when fitted alone.

REMARKS

When A.C. Supply Outfits DUA and DUE are fitted together, one of the DUE machines is wired to act as a standby for A.C. Supply Outfit DUE.

HANDBOOK

B.R. 1620 (1)(2)

ESTABLISHMENT LIST

E497

INSTALLATION SPECIFICATION

B146

A.C. SUPPLY OUTFIT DUF

SUMMARY OF DATA

INPUT 110 or 220 volts D.C. 5 kW
OUTPUT 180 volts 500 c/s single phase 3 kW

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight
W5087/A or W5088/A	Alternator Motor 3 kW 180V 500 c/s 110V D.C. Supply	2	2' 6 $\frac{1}{2}$ "	2' 3"	1' 3 $\frac{1}{2}$ "	480 lb each
	Alternator Motor 3 kW 180V 500 c/s 220V D.C. Supply	2	2' 6 $\frac{1}{2}$ "	2' 3"	1' 3 $\frac{1}{2}$ "	480 lb each
W4931/A/B	Board 2AG Supply 1 $\frac{1}{2}$ - 3 kW 180V A.C. 110/220V Supply	1	1' 3 $\frac{1}{2}$ "	1' 3 $\frac{1}{2}$ "	1' 8"	110 lb
W4416	Switch Drum Type Machine Change-over 6 pole 30 amps	1	1' 2 $\frac{1}{2}$ "	10 $\frac{1}{2}$ "	8"	23 lb
W6435B	Board Distributing					30 lb

NOTE:- Patt. W6435B Board is only required when A.C. Supply Outfit DUF is fitted in No. 3 Transmitting Room.

WHERE FITTED

With (a) Type 291 fitted alone (b) Type 268 fitted alone (c) Type 291 and 268 fitted together
 (d) In 'S' and 'T' Class submarines without power training for Type 291

HANDBOOK

B.R.1555(A) and (B)

ESTABLISHMENT LIST

E501

INSTALLATION SPECIFICATION

B687

A.C. SUPPLY OUTFIT DUG

SUMMARY OF DATA

INPUT 110 or 220 volts D.C. 12.5 kW

OUTPUT (a) 180 volts 500 c/s single phase 8 kW

(b) 24 volts D.C. 96 watts (from Patt. W3275 Rectifier Unit Design N)

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight
1332A	Alternator Motor 8 kW 180V 500 c/s, 110V Supply	2	2' 4"	1' 4"	3' 2"	925 lb each
6944A or	Starter for Motor 8 kW 110V Size Y	1	Fitted on Board Supply Lower		2A6	
6596A/B	Alternator Motor 8 kW 180V 500 c/s, 220V Supply	2	2' 4"	1' 4"	3' 2"	925 lb each
6946A and	Starter for Motor 8 kW 220V Size Y	1	Fitted on Board Supply Lower		2A6	
W3330/A) W3427/A)	Board 2A6 Supply 8 kW 110/220V Supply Upper	1	5' 3½"	1' 9"	1' 1½"	312 lb
W3331	Board 2A6 Supply 8 kW 110/220V Supply Lower	1				
W3475	Board 2A6 Distributing 180V 500 c/s, A.C. Supply and 110/220V D.C. Supply	x	1' 7"	9½"	4½"	50 lb
W3275	Rectifier Unit Design N	x	1' 6"	10"	8"	50 lb
W3476/A	Switch (Drum Type) Machine C.O.	1	1' 10"	1' 2½"	9½"	50 lb

* One fitted for each radar set supplied from outfit with a maximum of four.

WHERE FITTED

In ships fitted with Type 291H in addition to Types 277/293 series.

HANDBOOK

B.R.1620 (1)(2)

ESTABLISHMENT LIST

E497

INSTALLATION SPECIFICATION

B146

A.C. SUPPLY OUTFIT DUH

SUMMARY OF DATA

INPUT 220 volts D.C. 14.5 kW

OUTPUT 180 volts 500 c/s single phase 11 kW

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight
1334	Alternator Motor 11 kW 180V 500 c/s 220V Supply	2	3' 1 $\frac{7}{8}$ "	3' 1"	1' 6 $\frac{1}{2}$ "	896 lb each
6942A	Starter Automatic for Motor 14.5 kW 220V	2	2' 0 $\frac{1}{2}$ "	1' 3"	1' 3 $\frac{1}{2}$ "	98 lb each
55313	Board 2AQ Supply 11 kW 180V 500 c/s	2 [*]	6' 0 $\frac{7}{8}$ "	1' 11"	1' 3"	700 lb each
W476/A	Switch Change-over (Drum Type)	‡	1' 11 $\frac{1}{2}$ "	1' 2 $\frac{1}{2}$ "	11 $\frac{1}{8}$ "	84 lb

* Only one to Ships where both Type 275's are fitted forward or aft and are supplied from same L.P. room.

‡ Only to Ships fitted as above.

WHERE FITTED

(a) In Ships fitted with two Type 275's.

(b) In A/S Frigates fitted with Type 277 P/Q and 293 P/Q.

HANDBOOK

B.R.1768(2) (3)

ESTABLISHMENT LIST.

E694

INSTALLATION SPECIFICATION

B525

A.C. SUPPLY OUTFIT DUJ

SUMMARY OF DATA

INPUT 110 or 220 volts D.C. 2½ kW

OUTPUT 100 - 180 volts 500 c/s single phase 1½ kW

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight
7525	Alternator Motor 1½ kW 100V 500 c/s 110V D.C. Supply	1	2' 3"	1' 0½"	1' 11"	} 283 lb
W4341/ W3744	Starter Automatic 110V	1	1' 4½"	11"	8"	
W2586/A or 7526	Board 2AG Supply and Distributing 110V	1	3' 10"	1' 0½"	11"	100 lb
W4342/ W3745	Alternator Motor 1½ kW 100V 500 c/s, 220V D.C. Supply	1	2' 3"	1' 0½"	1' 11"	} 283 lb
	Starter Automatic 220V	1	1' 4½"	11"	8"	
W2585/A	Board 2AG Supply and Distributing 220V	1	3' 10"	1' 5½"	11"	100 lb
W3275	Rectifier Unit Design 'N'	1	1' 6"	1' 0½"	8"	100 lb

WHERE FITTED

With Type 251M when fitted alone.

HANDBOOK

B.R.1445

ESTABLISHMENT LIST

E465

INSTALLATION SPECIFICATION

B130

A.C. SUPPLY OUTFIT DUL

SUMMARY OF DATA

INPUT 110 or 220 volts D.C. 2½ kW
OUTPUT 180 volts 500 c/s single phase 1½ kW

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight
W4515/ 55262 or W4516/ 55263	Alternator Motor 1½ kW 180V 500 c/s 110V D.C. Supply	2	1' 4¾"	1' 3"	8¾"	160 lb each
	Alternator Motor 1½ kW 180V 500 c/s 220V D.C. Supply	2	1' 4¾"	1' 3"	8¾"	160 lb each
W4931B	Board 2AG Supply 1½ - 3 kW 180V A.C. 110/220V Supply	1	1' 3½"	1' 3½"	1' 8"	110 lb
W4416	Switch Drum Type Machine Change-over 6 pole 30 amps	1	1' 2½"	10½"	8"	23 lb

WHERE FITTED

In 'U' Class submarines with Type 291W when A.C. Supply Outfit DUF cannot be fitted.

HANDBOOK

B.R.1555(A) and (B)

ESTABLISHMENT LIST

E524

INSTALLATION SPECIFICATION

3687

A.C. SUPPLY OUTFIT DUW

SUMMARY OF DATA

INPUT 110 or 220 volts D.C. 5 kW
OUTPUT 180 volts 500 c/s single phase 3 kW
MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight
W5087/A or 55269	Alternator Motor 3 kW 180V 500 c/s, 110V D.C. Supply Alternator Motor 3 kW 180V 500 c/s, 220V D.C. Supply	1 1	2' 6 $\frac{1}{2}$ " 2' 6 $\frac{1}{2}$ "	2' 3" 2' 3"	1' 3 $\frac{1}{2}$ " 1' 3 $\frac{1}{2}$ "	400 lb 400 lb
W4931B	Board 2AG Supply 1 $\frac{1}{2}$ - 3 kW 180V A.C. 110/220V Supply	1	1' 3 $\frac{1}{2}$ "	1' 3 $\frac{1}{2}$ "	1' 8"	110 lb

WHERE FITTED

(a) In ships with Type 268U (b) In conjunction with A.C. Supply Outfit DXB in 'T' Class submarines for Types 267A/MW

HANDBOOK

B.R.1312, 1444

ESTABLISHMENT LIST

E501

INSTALLATION SPECIFICATION

B687

A.C. SUPPLY OUTFIT DUZ
SUMMARY OF DATA

INPUT 110 or 220 volts D.C. 12.5 kW
OUTPUT 180 volts 500 c/s single phase 8 kW

MAIN UNITS

Pattern No.	DESCRIPTION	No, per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight (lbs)
1332/A	Alternator, Motor, 8 kW, 180V 500 c/s 110V Supply	2	2' 4"	3' 2"	2' 0½"	} 960 for one of each
6944A or 6596/A/B	Starter for Motor, 8 kW 110V (Size Y)	2	1' 9"	1' 1"	1' 1½"	
6946A	Alternator, Motor, 8 kW, 180V 500 c/s 220V Supply	2	2' 4"	3' 2"	2' 0½"	} 960 for one of each
W3472/A	Starter for Motor, 8 kW 220V (Size Y)	2	1' 9"	1' 1"	1' 1½"	
W3331	Board 2AG Supply, 8 kW, upper	2	} 5' 8½"	1' 9"	1' 1½"	} 344 each
W3475/A	Board 2AC Supply, 8 kW, lower	2				
W3475/A	Board 2AG Distributing, 180V 500 c/s A.C. Supply and 110/220V D.C. Supply	1	1' 7"	10½"	4½"	50

WHERE FITTED

In destroyers with Type 291M and 293M/P in separate offices.

HANDBOOK B.R.

ESTABLISHMENT LIST E497

INSTALLATION SPECIFICATION B575

ISSUE NO. 1 OCT 1950

B.R. 333 OUTFIT DUZ

RESTRICTED

A.C. SUPPLY OUTFIT DVJ

SUMMARY OF DATA

INPUT

220 volts D.C. 140.5 kW (160 kW with duplicate machine running light)

OUTPUT

180 volts 500 c/s single phase 9 kW and 25 kW

120 - 360 volts 250 c/s single phase 9 kW

The output is derived from three alternators mounted on a single base plate, driven by a D.C. Motor.

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight
57023	Motor Alternator (43 kW)	2	3' 10"	10" 3"	2' 4"	7840 lb each
57234/A	Starter Automatic for Motor 75 H.P. 220V D.C. Supply	2	5' 0"	1' 10"	1' 6"	1232 lb for one of each
57235	Board 2AR Regulating and Distributing 220V D.C.	2	5' 0"	2' 4"	1' 6"	
D.E.E.	Board Distributing for Types 982/3	1				
D.E.E.	Board Distributing A.I.C.	1				
58680	Board 2AR Distributing A.C./D.C. Design 1 (For Type 960)		3' 6"	3' 0"	1' 3"	448 lb
65658	Board 2AU Distributing (For Type 293P/Q only)		3' 9"	2' 6"	11½"	196 lb
57602	Board 2AR Change-over A.C./D.C. Des. 3 (For Type 960)		2' 4"	3' 3"	1' 2"	504 lb
58679	Board 2AR Change-over A.C./D.C. Des. 2 (For each Type 293P/Q)		2' 4"	2' 8"	1' 2"	392 lb
65737	Board 2AR Change-over A.C./D.C. Des. 4 (For Type 982 and 983)		2' 3"	2' 4"	1' 4"	504 lb

WHERE FITTED

In ships fitted with Types 960, up to two Type 982, up to two Type 983 and Type 293 series.

REMARKS

The outfit is sited in two separate power rooms, one motor alternator and associated control gear in each. Change-over and distribution boards are fitted in each Radar Office. Also fitted in the power rooms is a D.E.E. 35 kVA Compensated Motor Alternator which generates a 230 volts 50 c/s 3 phase supply. This machine is not part of the A.C. Supply Outfit DVJ.

HANDBOOK

C.B.

ESTABLISHMENT LIST

E878

INSTALLATION SPECIFICATION

B675

RESTRICTED

DVH

A.C. SUPPLY OUTFIT DVH SUMMARY OF DATA

INPUT 220 volts D.C. 60.5 kW (72.5 kW with duplicate machine running light)

OUTPUT 180 volts 500 c/s single phase, 10 kW and 9 kW

120 volts - 360 volts 250 c/s single phase, 3 kW

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight (lbs)
54980	Motor Alternator (28 kW)	2	3' 10"	8' 3"	2' 4"	5208 each
57234/A	Starter Automatic for Motor 75 H.P. 220V D.C. Supply	2	5' 0"	1' 10"	1' 6"	1232 for one of each
57235	Board 2AR Regulating and Distributing 220V D.C.	2	5' 0"	2' 4"	1' 6"	
W8129A/B	Board 2AM Distributing	2*	3' 9"	2' 6"	11 1/2"	240 each
57062	Board Change-over A.C./D.C. Design 3 (for Type 960)	1	2' 4"	3' 3"	1' 2"	540
58679	Board Change-over A.C./D.C. Design 2	2*	2' 4"	2' 8"	1' 2"	392 each
58680	Board 2AR Distributing A.C./D.C. Design 1 (for Type 960)	1	3' 6"	3' 0"	1' 3"	448
65658	Board 2AU Distributing	1*	3' 9"	2' 6"	11 1/2"	196
D.E.E.	Board Distributing A.I.C.					

x (a) Not for ships already fitted with Types 277/293 series.

(b) One in No. only required if DVN is used in conjunction with Type 293Q.

+ One each for Type 277 and 293 series.

* With Type 293Q only.

WHERE FITTED

In ships fitted with one of each Type 960, 277 series, 293 series.

REMARKS

The outfit is sited in two separate power rooms, one motor alternator and associated control gear in each. Change-over and distribution boards are fitted in each Radar Office. Also fitted in the power rooms is a D.E.E. 35 kVA Compensated Motor Alternator which generates a 230 volts 50 cycles 3 phase supply. This machine is not part of A.C. Supply Outfit DVH.

HANDBOOK

C.B. BR 2094

ESTABLISHMENT LIST

EB78

INSTALLATION SPECIFICATION

IB661

ISSUE NO. 1 OCT 1950

B.R. 333 OUTFIT DVH

RESTRICTED

A.C. SUPPLY OUTFIT DVN

SUMMARY OF DATA

INPUT 220 volts D.C. 109 kW (128.5 kW with duplicate machine running light)

OUTPUT 180 volts 500 c/s single phase 9 kW + 25 kW
120 - 360 volts 250 c/s single phase 9 kW

The output is derived from three alternators mounted on a single base plate driven by a D.C. Motor.

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight
57023	Motor Alternator (43 kW)	2	3' 10"	10' 3"	2' 4"	7840 lb each
57234/A	Starter Automatic for Motor 75 H.P. 220V D.C. Supply	2	5' 0"	1' 10"	1' 6"	1232 lb for one of each
57235	Board 2AR Regulating and Distributing 220V D.C.	2	5' 0"	2' 4"	1' 6"	
D.E.E.	Board Distributing A.I.C.					
57602	Board 2AR Change-over A.C./D.C. Des. 3 (For Type 960)		2' 4"	3' 3"	1' 2"	504 lb
58679	Board 2AR Change-over A.C./D.C. Des. 2 (For each Type 277 or 293 series)		2' 4"	2' 8"	1' 2"	392 lb
58680	Board 2AR Distributing A.C./D.C. Des. 1 (For Type 960)		3' 6"	3' 0"	1' 3"	448 lb
65658	Board 2AU Distributing (For each Type 277 or 293 series)		3' 9"	2' 6"	11½"	196 lb

WHERE FITTED

In ships fitted with Type 960, Type 293 series and two to four Type 277 series.

REMARKS

The outfit is sited in two separate power rooms, one motor alternator and associated control gear in each. Change-over and distribution boards are fitted in each Radar Office. Also fitted in the power rooms is a D.E.E. 35 kVA Compensated Alternator which generates a 230 volts 50 c/s 3 phase supply. This machine is not part of the A.C. Supply Outfit DVN.

HANDBOOK -

ESTABLISHMENT LIST E878

INSTALLATION SPECIFICATION E662

A.C. SUPPLY OUTFIT DWH

SUMMARY OF DATA

INPUT

24 volts, 900 W.

OUTPUT

230 volts, 50 c.p.s., single phase, 500 VA, 0.9 P.F. (55229A)
" " 55 " " " " " (55229B)

MAIN UNITS

Pattern No.	Description	No. per outfit	Physical Data			
			Height	Width	Depth	Weight
7675	Switch, Multiple Control for Auto-Starter	1 see (a)				
55229A/B	D.C./A.C. Motor Generator, 450 watts at 0.9 P.F. 230 V. 50-60 c/s single phase, 26 V. D.C. supply	1	12 $\frac{1}{2}$ "	24-5/16"	9"	150 lb.
60986	Switch, Automatic Changeover and Starting.	1 see (b)				
60987	Regulator, Auto-voltage control, 30 watts, 30 ohms, 230 volts.	1 see (b)				
68891	Control Unit for Motor Generator, 500 watts, 250 V., 50 c/s, 24 V. D.C. supply.	1	9"	25"	9"	75 lb.

NOTES: (a) Not required when fitted with Type 619EF.
(b) Only required when fitted with Type 691EF.

WHERE FITTED

In ships for use as an emergency power supply for low power transmitter/receivers, e.g. Type 618/619 and Type 691EF. Also fitted in certain light craft as the main supply for Type 618/619.

HANDBOOK B.R.2100

ESTABLISHMENT LIST E.1051

INSTALLATION SPECIFICATION B.769

A.C. SUPPLY OUTFITS DWJ AND DWK

DWJ

DWK

SUMMARY OF DATA

INPUT

110V 8A D.C. (approx.) for DWJ
 220V 4A D.C. (approx.) for DWK

OUTPUT

230V 50-60 c/s, single phase 500VA, 0.9 pF.

MAIN UNITS

PATTERN NO.	DESCRIPTION	PHYSICAL DATA			
		HEIGHT	WIDTH	DEPTH	WEIGHT
	<u>FOR DWJ</u>				
68892A	D.C./A.C. Motor Generator	10"	24 1/2"	9 1/2"	150 lb
68893	Control Unit for Motor Generator	9 1/2"	23"	9"	50 lb
	<u>FOR DWK</u>				
68894A	D.C./A.C. Motor Generator	10"	24 1/2"	9 1/2"	150 lb
68895	Control Unit for Motor Generator	9 1/2"	23"	9"	50 lb
	<u>FOR DWJ AND DWK</u>				
7675	Switch, Multiple Control for Auto-starter				

WHERE FITTED

In small craft where a 230V A.C. supply is required for low power communications equipment (e.g. Types 618, 619 and 691).

HANDBOOK

B.R.1494.

ESTABLISHMENT LIST

E1051.

INSTALLATION SPECIFICATION

B769.

A.C. SUPPLY OUTFIT DXA

SUMMARY OF DATA

INPUT 220 volts D.C. 25 kW (23 kW in 'A' Class submarines)

OUTPUT 180 volts 500 c/s single phase 8 kW
230 volts 50 c/s single phase 3.5 kW
24 volts D.C. .75 kW

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight
6596B	Motor Alternator 8 kW 180V 500 c/s	2	1' 6½"	3' 2"	1' 7½"	940 lb each
W891/R	Motor Alternator 5 kVA 230 volts 50 c/s	2	1' 9½"	2' 11"	1' 4"	610 lb each
6946A	Starter Automatic for 0.75 kW machines	4	1' 9"	1' 1"	1' 0"	65 lb each
54320	Motor Generator 0.75 kW 24V D.C.	2	1' 8"	2' 1½"	11½"	280 lb each
7511A	Starter Automatic for 0.75 kW machines	2	1' 4½"	11½"	9"	45 lb each
55893A/B	Board Power Supply 230V 50 c/s and 24 volts	1	5' 5"	2' 3½"	1' 7"	365 lb
55892A	Board Power Supply 180V 500 c/s	1	5' 5"	1' 6½"	1' 7"	305 lb
55896	Board Remote Control 180V 230V 24V	1	2' 0"	1' 8"	1' 0½"	55 lb
D.E.E.	Motor Alternator (for 230V)	2				1350 lb each

NOTES Patt. W891/R Motor Alternator is only fitted in 'T' Class submarines otherwise the D.E.E. Motor Alternator is fitted.

Patt. 55893B Board Power Supply must be fitted in 'A' Class submarines.

WHERE FITTED

In 'A' and 'T' Class submarines, Submarine Depot ships, Radio Maintenance ships etc. for supplying power to Radar (Types 267 MW/PW), Wireless (Types 55M, 86M, Receivers B40, B41, B28, B29, D/F Outfit FM11), Asdic, Echo Sounding and Torpedo Data Computer apparatus.

HANDBOOK

B.R.1424

ESTABLISHMENT LIST

E735

INSTALLATION SPECIFICATION

B475

A.C. SUPPLY OUTFIT DXB
SUMMARY OF DATA

INPUT 220 volts D.C. 5 kW

OUTPUT 230 volts 50 c/s single phase, 2.5 kW

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight (lbs)
3891	Motor Alternator, 2½ kW, 230V 50 c/s 220V D.C. Supply	1	1' 6"	2' 7½"	1' 1½"	450
54320	Motor Generator, 750 W 24V D.C. 220V D.C. Supply	1	1' 8"	2' 1½"	11½"	280
W4342 or 7511	Starter Contactor, Type 220V D.C.	1	1' 4½"	11"	8"	20
55090	Board, Remote Control for 230V 50 c/s & 24V D.C.	1	9½"	9½"	5½"	10
55088	Board Supply, 2½ kW 230V 50 c/s & 750 W 24V D.C.	1	1' 6½"	1' 4½"	11½"	35

WHERE FITTED

In 'T' Class submarines in conjunction with A.C. Supply Outfit DUW for Types 267N/MW.

HANDBOOK

Not yet issued.

ESTABLISHMENT LIST

E736

**INSTALLATION
SPECIFICATION**

B476

A.C. SUPPLY OUTFIT DXC

SUMMARY OF DATA

INPUT 220 volts D.C. 7.5 kW

OUTPUT 230 volts 50 c/s 3 phase 2.1 kW

50 volts 50 c/s 3 phase 0.3 kW

80 volts 1500 c/s 3 phase 3.0 kW

22 volts D.C. 0.5 kW

220 volts D.C. 2 kW

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight
W4872	Motor Alternator 230V 50 c/s, 3 phase 3 KVA	1	1' 8 $\frac{1}{2}$ "	2' 7 $\frac{1}{2}$ "	1' 1 $\frac{1}{2}$ "	280 lb
56267	Motor Alternator 80V 1500 c/s, 3 kW 22V D.C. 500 watts	1	1' 7"	3' 2 $\frac{1}{2}$ "	1' 2 $\frac{1}{2}$ "	448 lb
58265	Board 2AS Supply and Distributing Upper	1	5' 4 $\frac{1}{2}$ "	2' 4"	1' 6"	392 lb

WHERE FITTED

With each R.M.R. outfit RMC fitted in D.C. ships when Types 262(1)M and 262(2)M are fitted.

HANDBOOK

B.R.1764 (A) and (B)

ESTABLISHMENT LIST

E342

INSTALLATION SPECIFICATION

3561

A.C. SUPPLY OUTFIT DXD

SUMMARY OF DATA

INPUT 220 volts D.C. 15 kW

OUTPUT 80 volts 1500 c/s, single phase, 3 kW

 22 volts D.C. 0.5 kW

 50 volts 50 c/s, three phase, 0.24 kW

 220 volts D.C. 2 kW

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight (lbs)
56920	Motor Alternator 0.3 kVA, 50 c/s, 3 phase, A.C. 220V D.C. Supply	1	1' 7 $\frac{1}{8}$ "	1' 10 $\frac{1}{4}$ "	10 $\frac{1}{8}$ "	148
or						
W4440			1' 2 $\frac{3}{8}$ "	1' 8 $\frac{1}{8}$ "	8 $\frac{1}{8}$ "	84
56267	Motor Alternator, 3 kW 80V 1500 c/s and 500 W 24V D.C. 220V D.C. Supply	1	1' 7"	3' 2 $\frac{1}{2}$ "	1' 2 $\frac{1}{2}$ "	530
65997	Board 2AS Supply and Distributing 220V D.C. Supply Design 2	1	3' 9 $\frac{1}{2}$ "	2' 0"	1' 5 $\frac{1}{2}$ "	350
58352	Regulator Carbon Pile Type Design 9	1	Fitted in Board 2AS			

WHERE FITTED

With each R.M.R. outfit RMC in D.C. ships where Types 262(1)M and 262(2)M are fitted.

HANDBOOK

ESTABLISHMENT LIST B842

INSTALLATION SPECIFICATION B561

A.C. SUPPLY OUTFIT DYA

SUMMARY OF DATA

INPUT

440 volts 60 c/s three phase 19 kW

OUTPUT

180 volts 500 c/s single phase 14 kW

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight
67692	Board Distributing, 14 kW, 6 way. Design 5	1	3' 3"	1' 1"	10½"	140 lb
67547	Board, Control, 14 kW, 180V 500 c/s, 3 phase, A.C. Supply	2	4' 5½"	1' 2"	1' 2"	220 lb each
67720	Rectifier Unit, 1000W, 220V, D.C. 3 phase supply	2	1' 8"	1' 2"	1' 5"	120 lb each
67718	Starter for 25 H.P., 3 Phase Motor	2	5' 6¾"	1' 7½"	1' 6½"	350 lb each
66977/A	A.C./A.C. Motor Generator 16.5 KVA, 180V, 500 c/s, single phase, 440V, 500 c/s, 3 phase, 60 c/s supply	2	2' 10"	3' 7"	2' 4"	1900 lb each
W1698	Regulator Auto Voltage Control, carbon pile type	2	Fitted on Board Control			

WHERE FITTED

Fitted in DARING class A.C. ships to provide the above supply for the operation of radar sets.

HANDBOOK

B.R.

ESTABLISHMENT LIST

E996

INSTALLATION SPECIFICATION

B713

A.C. SUPPLY OUTFIT DZZ

SUMMARY OF DATA

INPUT 440 volts 60 c/s three phase 4.5 kW
220 volts D.C. 1.5 kW

OUTPUT 80 volts 1500 c/s single phase 2.25 kW
60 volts 60 c/s three phase 0.3 kW
22 volts D.C. .425 kW
220 volts D.C. 1 kW

MAIN UNITS

Pattern No.	DESCRIPTION	No. per outfit	PHYSICAL DATA			
			Height	Width	Depth	Weight
67465	Board Supply for Outfit DZZ 3 phase A.C. Supply	1	3' 10"	1' 1"	1' 2"	250 lb
66726	Motor Alternator	1	1' 5"	2' 1 $\frac{1}{2}$ "	1' 2"	330 lb
57782	Cable Form Design 3	1	1' 6 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	3"	40 lb
55264	Regulator Auto Voltage Control Design 8	1	Fitted on Board Supply			

WHERE FITTED

Fitted in A.C. ships to provide the above supplies for the Maintenance of Types 262(5)M and 262(6)M in Electronic or Auxiliary Radio Maintenance Rooms.

HANDBOOK

C.B.

ESTABLISHMENT LIST

E997

INSTALLATION SPECIFICATION

B561 Addendum B