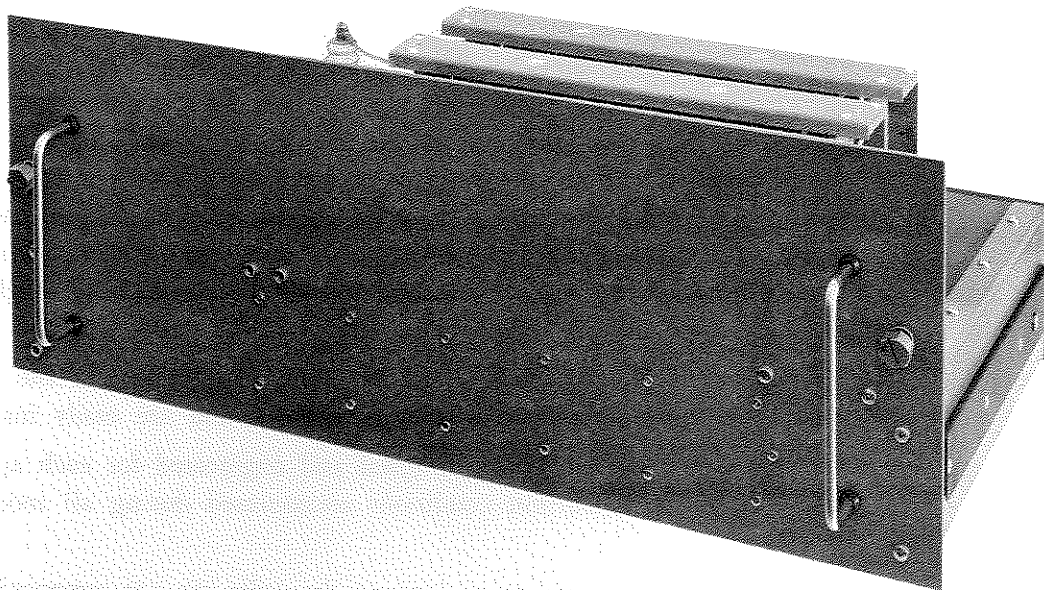


Field Engineering Bulletin

SOLID STATE POWER SUPPLIES

BULLETIN NUMBER **23A**



The Technical Materiel Corporation offers solid state power supplies for its complete line of transmitters.

The solid state power supplies that are offered for the AN/FRT-39 series of transmitters (GPT-10K) and AN/FRT-40 series of transmitters (GPT-40K) are in the form of either a complete factory assembled plug-in drawer or in the field modification kit form to modify existing vacuum tube drawers. Kits for the 10 and 40 KW transmitters have been designed for rapid installation making maximum use of existing drawer hardware. No drilling of metal work is required in the installation of these kits.

The solid state power supplies for the AN/URT-17, AN/URT-19V, AN/FRT 53, 55, 56, 57, 70 as well as the rest of the SBT-1K and GPT-350 series of transmitters are offered as plug-in direct replacements for vacuum tube rectifiers.

The following chart provides guidance in ordering the new solid state power supplies.

Equipment	Nomenclature	Power Supply Model	
		or	Remarks
		Kit Number	
GPT - 40K	AN/FRT - 54 AN/FRT - 40()	HVRB - 2 or Kit 258	Replaces AP - 105
GPT-10K	AN/FRT - 39() AN/FRT - 52()	HVRC - 2 or Kit 257	Replaces AX - 103
SBT - 1K Series	(AN/URT - 19V)	Kit 261	Plug-in Rectifiers
	AN/FRT - 53	" "	
	AN/FRT - 56	" "	
	AN/FRT - 57	" "	
GPT - 750 Series	AN/URT - 17()	Kit 313	Plug-in Rectifiers
	AN/FRT - 55	" "	
GPT - 350/SBT - 350 Series		Kit 232B	Plug-in Rectifiers

Installation of the direct replacement drawer in the 10 and 40 kilowatt transmitters is accomplished in a matter of minutes and no "baking" time is required. Installation of the Kit in the 10 kilowatt transmitter requires approximately 3 man hours. Installation of the Kit in the 40 kilowatt transmitter requires approximately 7 man hours.

The plug-in rectifiers in the GPT-350/SBT-350 Series, SBT-1K Series and the GPT-750 Series are direct replacements for the vacuum tube rectifiers used and are easily installed.

All of the solid state rectifiers offered have been designed and engineered for each application, taking into account the voltage and current conditions encountered during all modes of operation.

All solid state rectifiers carry a 5 year warranty, as long as the units are not tampered with nor operated beyond their rated capacity.

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