

SEPARATELY EXCITED ELECTRONIC MOTOR SPEED CONTROLLER

MODEL 1243 SepEx®

CURTIS

Features

Unparalleled Driving and Braking Feel

- Regenerative braking allows shorter stopping distances, increases usable battery energy, and reduces motor heating. The half bridge armature drive topology allows regenerative braking down to zero vehicle speed.
- "Ramp Restraint" feature provides automatic electronic braking that restricts vehicle movement while in neutral.
- Vehicle speed is controlled by the throttle, at all times including down hills.
- "Load Compensation" provides improved loaded versus unloaded speed regulation by compensating for losses in the armature.

Fully Programmable

- Fully compatible with the Curtis Model 1307 programmer for programming, test, and diagnostic information.
- MultiMode™ feature allows four user selectable

DESCRIPTION

Curtis PMC Model 1243 SepEx® programmable controllers provide smooth and seamless regenerative control of separately excited motors. An advanced MOSFET power section, combined with a sophisticated microprocessor provides very high efficiency, silent operation and reduced motor and battery losses

WARRANTY

One year from date of delivery.

Powerful Safety Features

- Meets or exceeds EEC fault detection requirements. Circuitry and software to detect faults in the throttle circuit and MOSFET drive circuits help prevent unsafe operation.
- Emergency reverse feature causes quick vehicle reversal upon activation. The emergency reverse input wire can also be checked for continuity.
- Programmable HPD and SRO interlock options ensure proper startup sequence.
- Complies with the CE standards for electromagnetic compatibility in emissions and susceptibility.
- Active power on self test and continuous diagnostics during operation. Internal and external watchdog circuits ensure proper software operation.
- All inputs and outputs are fully protected.

Model Chart

CURTIS PMC MODEL	VOLTAGE (volts)	ARMATURE RATING* (amps)		FIELD RATING (amps)	
		2 minutes	1hr	2 minutes	1hr
1243-42XX	24-36	200	80	25	15
1243-43XX	24-36	300	100	25	15
1243-52XX	36-48	250	80	15	9

*Armature rating is for both drive and regen current

Please consult Curtis PMC for availability of other models with different ratings.

Typical Wiring Diagram



