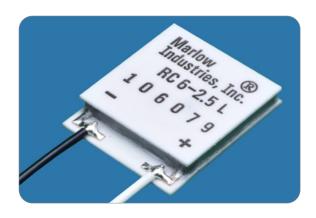


# TECHNICAL DATA SHEET



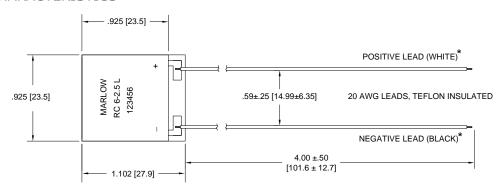
# RC6-2.5

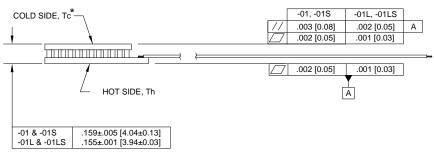
Single-Stage Thermoelectric Module RoHS EU Compliant

# TYPICAL PERFORMANCE VALUES

Hot Side Temperature (°C)	27°C	50°C
$\Delta$ Tmax (°C-dry $N_2$ ):	65	73
Qmax (watts):	13	14
Imax (amps):	2.5	2.5
Vmax (vdc):	8.2	9.2
AC Resistance (ohms):	2.8	
Device ZT	0.76	

# MECHANICAL CHARACTERISTICS





Ceramic Material: Alumina (AC)

Dimensions in [ ] are millimeters

\*NOTE: Cold side and positive and negative leads are valid only for thermoelectric cooling. For power generation, refer to page 3.

## ORDERING OPTIONS

Model Number

RC6-2.5-01 Base Model w/ leads RC6-2.5-01L Lapped Model RC6-2.5-01S Sealed Model

RC6-2.5-01LS Lapped and Sealed Model

Description

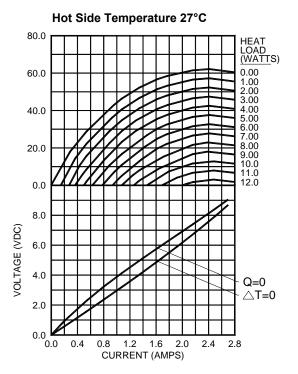
## PRODUCT FEATURES

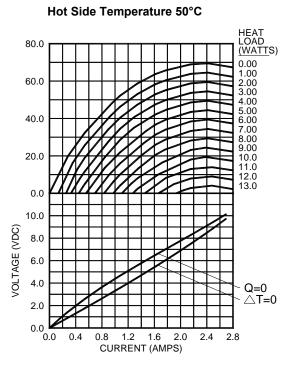
- Solid-state reliability.
- Built with high temperature solder with the ability to withstand higher assembly processing temperatures for short periods of time (<160°C).</li>
- Superior nickel diffusion barriers on elements.
- High strength for rugged environment.
- Porched configuration for enhanced leadwire strength.
- RTV sealing available (Optional).
- Lapped option available for multiple module applications.

For customer support or general questions please contact a local office or visit our website at www.marlow.com.

# COOLING PERFORMANCE CURVES

# ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN





For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, contact one of our Applications Engineers at 877-627-5691.

## Installation

Recommended mounting methods: Bonding with thermal epoxy or soldering with metallized ceramics. For additional information, please refer to our TEC Installation Guide.

## **Operation Cautions**

For maximum reliability, storage and operation below 85°C in a non-condensing environment is recommended. To minimize thermal stress, use linear/proportional temperature control or a similar method rather than an ON/OFF method.

## **CONTACT US:**

For customer support or general questions please contact a local office below or visit our website at www.marlow.com.

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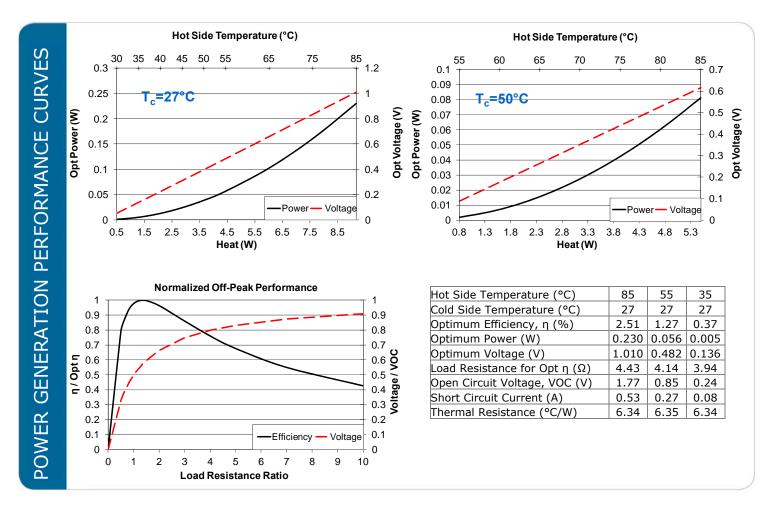
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Power Generation performance information is given in a nitrogen environment and cold side temperatures of 27°C and 50°C. Module temperature does not include thermal resistance of heat sinks. For performance information in vacuum, other cold side temperatures, or specific heat sinks, consult one of our applications engineers.

# TYPICAL POWER GENERATION CONFIGURATION

