

## LAMPIRAN

Registrasi Online [www.moderia.co.id/rastripart](http://www.moderia.co.id/rastripart)

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**PRODUK : LEMARI PENDINGIN (SHOWCASE COOLER)**  
**MODEL : SC 1130**  
**NO SERI : F081P6 0120 042 K2**

Jaringan Service Center MODERIA

KOTA	ALAMA T
Jakarta I	Jln. Pintu Kecil 12A, Jakarta 11250
Jakarta II	Jln. Mangrove Tripartita Raya No. 17/2
Bandung	Jln P. eta Lingkar Selatan Kav. C 22 Bandung
Semarang	Jln. Citarom Tengah Blok E 14-15, Semarang 50126
Yogyakarta	J. Ring Road Barat, P. entanaran Ngagarto V Kutuharan Ngagarto
Surabaya	Jln. Gunung Sari No. 58 Surabaya 60042

Model	SC 1130	SC 1130	SC 1130	SC 1130
Model	Hitam (L)	Hitam (L)	Hitam (L)	Hitam (L)
Warna	1	1	1	1
Jumlah pintu	260	180	180	180
Kapabilitas (liter)	0-10	0-10	0-10	0-10
Dapat Gelas	Ya	Ya	Ya	Ya
Komponen Inverter CFC	Ya	Ya	Ya	Ya
Dapat Beku	Ya	Ya	Ya	Ya
Elemen pemanas pendingin	Ya	Ya	Ya	Ya
Teknologi digital	Ya	Ya	Ya	Ya
Dapat pemanas pintu kaca	Ya	Ya	Ya	Ya
Elemen anti-cobong	Ya	Ya	Ya	Ya
Jumlah kaca pada pintu (lapis)	Kaca 2 lapis	Kaca 2 lapis	Kaca 2 lapis	Kaca 2 lapis
Kunci	Ya	Tidak	Tidak	Tidak
Lamp box diatas pintu	Tidak	Tidak	Tidak	Tidak
Kaki roda	200	110	220	220
Daya listrik (watt)	220	60	60	60
Tegangan listrik (Volt)	60	49.5*51.5*140	49.5*51.5*128	49.5*51.5*128
Frekuensi listrik (Hz)	60	50	48	44
Dimensi Produk (P x L x T) cm	54 x 52 x 178			
Berat produk (kg)	50			

S = Stainless W = Putih V = Silver G = Abu-abu L = Hitam  
 Desain dan spesifikasi dapat berubah setiap saat tanpa pemberitahuan terlebih dahulu

High Performance and Highly Reliable Solution  
for Cooling and Heating Applications

## Specification of Thermoelectric Module

### TEC1-12706

**Description**

The 127 couples, 40 mm x 40 mm size single stage module is made of selected high performance p-n-jet to achieve superior cooling performance and greater delta T up to 70 °C, designed for superior cooling and heating up to 100 °C requirement. If higher operation or processing temperature is required, please specify we can design and manufacture the custom made module according to your special requirements.

**Features**

- High effective cooling and efficiency
- No moving parts, no noise and solid-state
- Compact structure, small in size, light in weight
- Environmental friendly, RoHS compliant
- Simple temperature control
- Exceptionally reliable in quality, high performance

**Application**

- Food and beverage service refrigerator
- Portable cooler box for cars
- Liquid cooling
- Temperature stabilizer
- Photonic and medical systems

**Performance Specification Sheet**

$T_c$ (°C)	27	50	Hot side temperature at environment domain
$\Delta T$ (°C)	70	79	Temperature Difference between cold and hot side of the module when cooling capacity is zero or cold side
$U_{max}$ (Vdc/Vac)	16.0	17.2	Voltage applied to the module at $D_{max}$
$I_{max}$ (amps)	8.1	8.1	DC current through the module at $D_{max}$
$Q_{max}$ (Watts)	61.4	65.7	Cooling capacity on cold side of the module under $\Delta T = 0$ °C
AC resistance (ohms)	2.0	2.2	The module resistance is tested under AC
Tolerance (%)	± 10		For thermal and electricity parameters

**Geometric Characteristics** Dimensions in millimeters

**Sealing Option**

**A. Solder:**

- T100: Silver (Tmax = 128 °C)

**B. Sealant:**

- NS: No sealing (Standard)
- SS: Silicone sealant
- EPS: Epoxy sealant
- Custom: epoxy sealing other than above

**C. Ceramics:**

- Alumina (Al<sub>2</sub>O<sub>3</sub> white 96%)
- Aluminum Nitride (AlN)

**D. Ceramic Sealant Options:**

- Blank ceramic (not metallized)
- Metallized (Au plating)

**Ordering Option**

Suffix	Thickness (mm)	Flatness/Parallelism (mm)	Lead wire length (mm) Standard/Optional length
TF	0.3 ± 0.1	0.0 025/0.025	125 ± 3/Specify
TF	1.3 ± 0.05	1.0 025/0.025	125 ± 3/Specify
TF	2.3 ± 0.025	2.0 025/0.025	125 ± 3/Specify

Eg. TF01: Thickness 3.3 ± 0.1 (mm) and Flatness 0.025 / 0.025 (mm)

**Sealing for the Module**

TEC1-12706-T100-NS-TF01-A10  
T100: Silver (Tmax=128°C)      A10: Alumina white 96%

NS: No sealing      EPS: Epoxy sealant

TF01: Thickness 3.3 (mm) and Flatness/Parallelism 0.025/0.025 (mm)

Creative technology with fine manufacturing processes provides you the reliable and quality products  
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