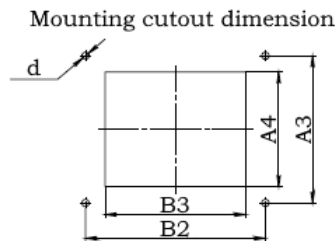
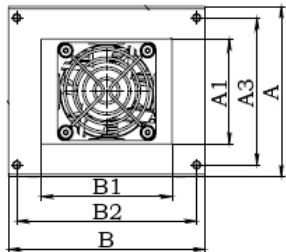
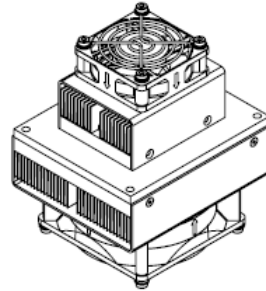
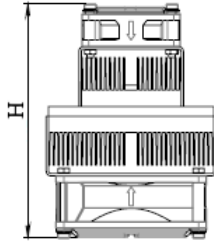
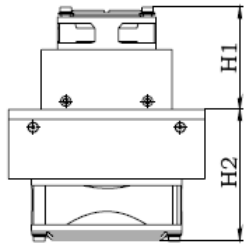


Thermoelectric cooling device
TECU-FF-50-12-1
FM202.058

Scientific & Production Firm "MODUL"
 (Thermoelectric modules & Thermoelectric semiconductor materials)
 63, Chervonotkatska Str., 02094, Kyiv, Ukraine
 Tel: +380-44-593-87-40, +380-44-593-87-43, Fax: +380-44-593-87-46
 E-mail: Modul@modulua.kiev.ua [http:// www.spf-modul.com](http://www.spf-modul.com)

General view:



Thermal and electrical characteristics:

Nominal operating voltage	VDC	12
Operating current (at ambient temperature 35 °C)	A	6,0
Start current (at ambient temperature 35 °C)	A	6,5
Cooling capacity (acc. to test L35/L35 DIN 3168)	W	45
COP	W/W	0,7
Cold side airflow	m ³ /h	25
Hot side airflow	m ³ /h	60
Operating temperature	°C	-20...+60

Tolerances for thermal and electrical parameters ±10 %.

Geometric characteristics:

Width (size A)	mm	104±2
Width (size A1)	mm	64±2
Width (size A3)	mm	90±0,2
Width (size A4)	mm	70±1
Length (size B)	mm	120±1
Length (size B1)	mm	80±1
Length (size B2)	mm	110±0,2
Length (size B3)	mm	86±1
Height (size H)	mm	142±2
Height (size H1)	mm	62±1
Height (size H2)	mm	75±1
Holes' diameter (size d)	mm	4,4±0,1

Wires:

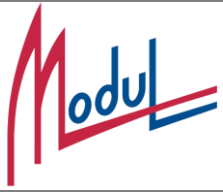
Wire length	mm	300+10
Wire cross section	mm ²	0,5; 0,2
Wire insulation type	–	PVC

Features:

Weight	kg	1,3
Noise	dB(A)	44
IP protection for sealing interface	–	54
IP protection for external circuit	–	No
IP protection for internal circuit	–	No
RoHS compliant	–	Yes

Notes:

- ✓ Custom designed thermoelectric devices are available;
- ✓ Do not exceed maximum or minimum operating temperature;
- ✓ Follow the requirements of the thermoelectric unit operating instruction;
- ✓ Follow the transportation and storage requirements to avoid the damage of the thermoelectric units.



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Performance graphs

