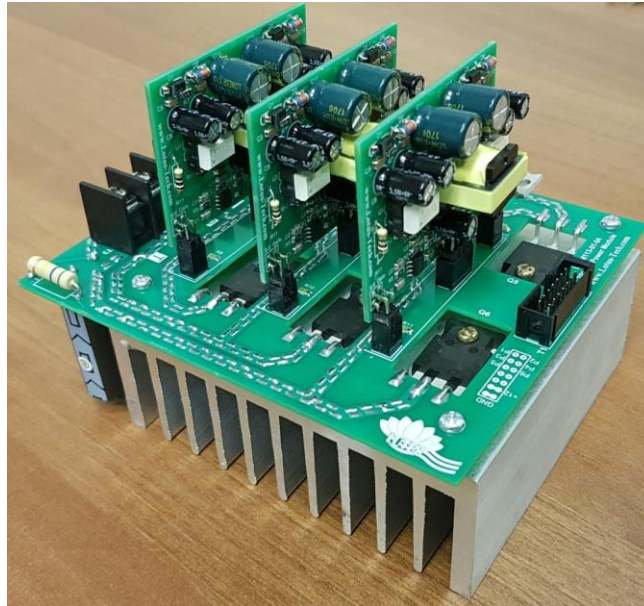


ماژول پل IGBT یونیورسال ۱۵ آمپر ۱۲۰۰ ولت

این ماژول با استفاده از ۶ IGBT، هیت سینک، بانک خازنی لینک DC و همراه با ۳ عدد درایور دابل IGBT عرضه شده است. به این ترتیب کاربر می‌تواند به سادگی تنها نرم‌افزار کنترلی خود را در پروسور دلخواه اجرا و مبدل خود را بسازد.



Maximum Ratings and Characteristics

Absolute Maximum Ratings (at $T_c=25^\circ\text{C}$ unless otherwise specified)

Items	Symbols	Conditions	Maximum ratings	Units	
Inverter	Collector-Emitter voltage	V_{CES}	1200	V	
	Gate-Emitter voltage	V_{GES}	± 20	V	
	Collector current	I_C	Continuous $T_c=100^\circ\text{C}$	25	A
		I_{CP}	1ms $T_c=80^\circ\text{C}$	50	
		$-I_C$		25	
		$-I_{CPulse}$	1ms	50	
Collector power dissipation	P_C	1 device	170	W	
Brake	Collector-Emitter voltage	V_{CES}	1200	V	
	Gate-Emitter voltage	V_{GES}	± 20	V	
	Collector current	I_C	Continuous $T_c=80^\circ\text{C}$	25	A
		I_{CP}	1ms $T_c=80^\circ\text{C}$	50	
	Collector power dissipation	P_C	1 device	170	W
	Repetitive peak reverse voltage (Diode)	V_{RRM}		1200	V
Converter	Repetitive peak reverse voltage	V_{RRM}	1600	V	
	Average output current	I_o	50Hz/60Hz, sine wave	25	A
	Surge current (Non-Repetitive)	I_{FSM}	10ms, $T_j=150^\circ\text{C}$	155	A
	I^2t (Non-Repetitive)	I^2t	half sine wave	120	A ² s
	Junction temperature	T_j	Inverter, Brake Converter	175 150	°C
Operating junction temperature (under switching conditions)	T_{JSP}	Inverter, Brake	150		
		Converter	150		
Case temperature	T_c		125		
Storage temperature	T_{stg}		-40 to +125		
Isolation voltage	between terminal and copper base (*1) between thermistor and others (*2)	V_{iso}	AC: 1min.	2500	VAC
Screw torque	Mounting (*3)	-	M5	3.5	N m

Note *1: All terminals should be connected together during the test.

Note *2: Two thermistor terminals should be connected together, other terminals should be connected together and shorted to base plate during the test.

Note *3: Recommendable value : 2.5-3.5 Nm (M5)