

V80A-14S Product Specification

一、Objective

The specification is for design, production, testing and sales of the subject product.

二、Application Scope

For ESC at input voltage of: 18V~60V DC.

三、Performance Requirements

Seq.	Item	Requirement	Remarks
1	Input Voltage (S)	6~14S	Factory inspection item
2	Continuous output current (A)	40A (under certain cooling conditions)	Factory sampling inspection item with DC power supply
3	Peak current (<10s)	80A (under certain cooling conditions) (10S)	Factory inspection item with DC power supply
4	BEC output voltage	No	Factory inspection item
5	Operating ambient temperature (°C)	-20°C~+65°C	±5°C
6	Operating humidity (%)	15%~85%RH	±5% RH
7	Storage temperature (°C)	-40°C~+65°C	±5°C
8	Preservation humidity (%)	15%~85% RH	±5 RH
9	Standby power	≤50mA	
10	Throttle range	1040us~1940us	Fixed throttle range
11	Throttle response speed	300ms	
12	Throttle refresh frequency	50~500Hz	
13	Throttle dead time	1%	
14	Data feedback	Yes	
15	Driving method	PWM&CAN	

四、Main materials/part specifications

Seq.	Item	Specs.			Remarks
1	Input cables	Silicone wires-red/black -12AWG-180mm	Connector	No	$\pm 5\text{mm}$
2	Output cables	Silicone wires-orange -14AWG-110mm	Connector	No	$\pm 5\text{mm}$
3	Signal wires	Shielded wires-black -OD4.2-5C-450mm-JP-3P*2 -black blank white-green yellow grey	Connector	2.54Dupont connector-3P plastic shell	$\pm 5\text{mm}$
4	Encoder wires	Shielded wires-black -24AWG-5C-450mm -M6 aviation connector	Connector	M6Aviation connector	$\pm 5\text{mm}$
4	Shell	Aluminium-silver			

五、Dimensions/drawing

Seq.	Item	Requirement	Remarks
1	Length	84mm	$\pm 1.5\text{mm}$
2	Width	34.4mm	$\pm 1.5\text{mm}$
3	Height	19mm	$\pm 1.5\text{mm}$
4	Weight	78g (excl. Cables)/110g	$\pm 5\text{g}$, ESC weight (incl. shell)
5	Shell weight	30g	$\pm 5\text{g}$, weight/shell

