

Country of Origin : China

Operating Temperature : 0 ÷ 40[°C]

Dimension : 103 x 50 x 33[mm]

Car adapter : DC-DC convertor

RoHS

Approvals / Marks :



### Features:

- Vehicle battery adapter for a car & truck. (12V or 24V input) (M<sub>1</sub>, M<sub>2</sub>, M<sub>3</sub>, N<sub>1</sub>, N<sub>2</sub>, N<sub>3</sub>, O<sub>1</sub>, O<sub>2</sub>, O<sub>3</sub>, O<sub>4</sub>)
- Wide range Input (11 ~ 28)Vdc.
- Output current & output Voltage protection.
- Power ON LED.
- Universal 19V model is for most of notebooks on the market.
- For I.T.E. use only + RoHS conform.

### Specification:

		OUTPUT							
	Model	Voltage DC [V]	min. Load [A]	max. Load [A]	Tol. [%]	Efficiency [%]	Max. Power [W]	Ripple & Noise [mV]p-p	Connector [mm]
	SYD1109-6012	12	0	5	±5	>83	60	120	2.5 x 5.5 x 11
	SYD1109-6019	19	0	3.15	±5	>75	60	230	"A.T.U.M.E."
OEM	Per order output:	9V/5.55A   12V/3A   15V/3A   16V/3.75A   18V/2.11A   18V/3.33A   20V/3A   21V/2.85   22V/2.72A   24V/1A   24V/2.08A   24V/2.5A   36V/1.66A   48V/1.25							
	(*) DC Connectors	"A" — 1.7 x 4.75 x 11.0 (black) "T" — 2.5 x 5.5 x 10.5 (yellow) "U" — 1.7 x 5.5 x 10.5			"M" — 2.5 x 5.5 x 12.5 (yellow) "E" — 4.4 x 6.0 x 10.5 (black)				
INPUT	Voltage	(11 ~ 28)Vdc							
	Current	7A DC							
	Surge Current max.	40Amax. At low line input and DC output full load							
	Power ON Led	Yes							
	Turn on delay	3s max. @ low line input @ output full load							
	MTBF Qualification	> 35K hours							
	DC cable & connector	Standard length of the cable 1.8m & It depends on customer requirements and upon specifications							
	Efficiency (Normal)	>75% @ input & Full load, depends on the model							
	Input Fuse	10A protected against power line surges and any abnormal conditions							
PROTECTION	Short Circuit	The power supply shall be protected from damage of accidentally shorting output for a period of up to 20 seconds. These outputs shall also be protected from damage of accidentally shorting either of output to return or chassis for a period of up to 20 seconds.							
	Output current & Output voltage	Overload conditions shall cause both the output current and the output voltage to decrease. Removal of an output overload conditions shall permit automatic recovery of the output voltage.							
	Ground	Negative							
ENVIRONMENT	Temperature	Operating: (0 ~ 40)°C / Storage: (-20 ~ 85)°C							
	Humidity	Operating: (8 ~ 90)% RH / Storage: (10 ~ 95)% RH non condensing							
<b>SAFETY</b>		<b>CE</b>							
	CE	89/336/EEC Directive EN55022 Class B(1998) +A1(2000) +A2(2003)   EN55024(1998) +A1(2001) +A2(2003)   IEC61000-4-2(2001), IEC61000-4-3(2002)							
		SYD1109-6012				SYD1109-6019			
WEIGHT	1pc	N.W.: 0.27kg / pc 0.48 x 0.26 x 0.44 [m]				N.W.: 0.28kg / pc 0.48 x 0.26 x 0.44 [m]			
PACKING	Box	54pcs / 1box G.W.: 18.7 kg / box				30pcs / 1box G.W.: 10.5 kg / box			