

DESCRIPTION

M57116L-01 is a hybrid IC for insulated DC-DC converter with built in transformers.

An input of DC 400-800V produces DC15V/0.25A +5V/0.5A -15V/0.05A output. Electrical isolation between primary and secondary sides is 2500Vrms.

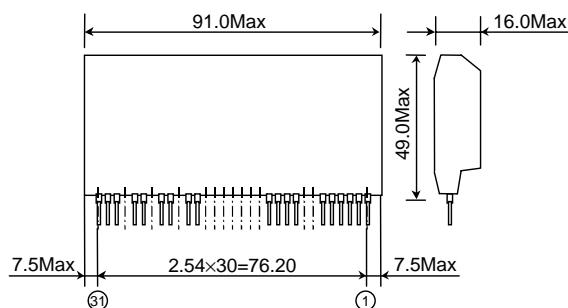
This hybrid IC is suitable for FA equipment.

FEATURES

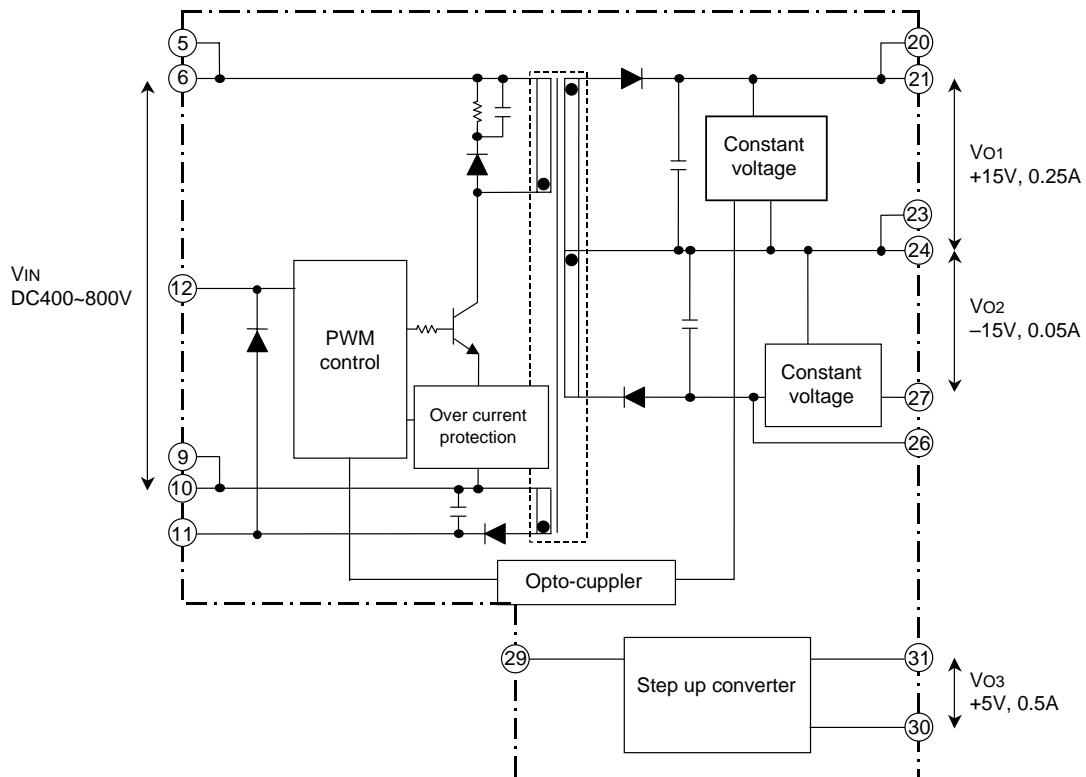
- Input voltage DC400 ~ 800V
- Output specification 15V/0.25A -15V/0.05A
5V/0.5A
- Built in over current protection
- Electrical isolation between primary and secondary sides 2500Vrms for 1 min.

OUTLINE DRAWING

Dimensions: mm

**APPLICATIONS**

- Power supply for IGBT driver circuits.
- On board power supply for FA equipment.
- Power supply for electronic devices.

BLOCK DIAGRAM

POWER SUPPLY FOR MACHINERY**RATING (Unless otherwise noted, Ta = 25°C)**

Symbol	Parameter	Conditions	Ratios	Units
V _{IN}	Input voltage	Between ⑤⑥-⑨⑩pin	800	V
I _{O1}	Load current	Between ⑩⑪⑬⑭pin	250	mA
I _{O2}		Between ⑬⑭⑯pin	50	
I _{O3}		Between ⑯⑰pin	500	
P _O	Output power	—	7.0	W
T _{opr}	Operating temperature	No condensation allowable	-10 ~ +50 *1	°C
T _{stg}	Storage temperature	No condensation allowable	-20 ~ +85	°C
V _{iso}	Electrical isolation between primary and secondary sides	AC voltage, 60Hz, 1 min.	2500	Vrms

ELECTRICAL CHARACTERISTICS (Unless otherwise noted, V_{IN} = 600V, Ta = 25°C)

Symbol	Parameter	Test conditions	Limits			Units
			Min	Typ	Max	
V _{IN}	Input voltage	Recommended range	400	600	800	V
V _{O1}	Output voltage	At the maximum rated load	⑩⑪ - ⑬⑭	14.25	15.0	15.75
V _{O2}			⑬⑭ - ⑯	-15.75	-15.0	-14.25
V _{O3}			⑯⑰	4.75	5.0	5.25
Reg-I	Input regulation	V _{IN} = 400 ~ 800V	⑩⑪ - ⑬⑭	—	—	60
			⑬⑭ - ⑯	—	—	300
			⑯⑰	—	—	20
Reg-L	Load regulation	I _{O1} = 100 ~ 250mA :	⑩⑪ - ⑬⑭	—	—	120
		I _{O2} = 10 ~ 50mA :	⑬⑭ - ⑯	—	—	150
		I _{O3} = 100 ~ 500mA :	⑯⑰	—	—	40
η	Efficiency	At the maximum rated load	—	65	—	%

CONNECTION FIGURE