



**Features**

Dimensions:

50.8×50.8×12.7 (mm)

- High efficiency: 80% typical
- Low output noise and ripple
- Output Over-current Protection
- Baseplate operating temperature -25°C to +85°C

**Numbering Convention**

$\frac{\text{SF}}{\text{①}} - \frac{48}{\text{②}} \frac{\text{S}}{\text{③}} \frac{5}{\text{④}} - \frac{25\text{W}}{\text{⑤}}$

No.	Features	Descriptions
①	Product Series	SF Series
②	Typical Input Voltage	C – Input Voltage: 48V
③	Number of Outputs	S – Single Output
④	Typical Output Voltage	5 – Output Voltage: 5V
⑤	Typical Output Power	25 – Output Power: 25W

## 1 Description

The technical specifications, dimensions and pins of the SF48S5-25W series products are compatible with IPD's OWS4805.

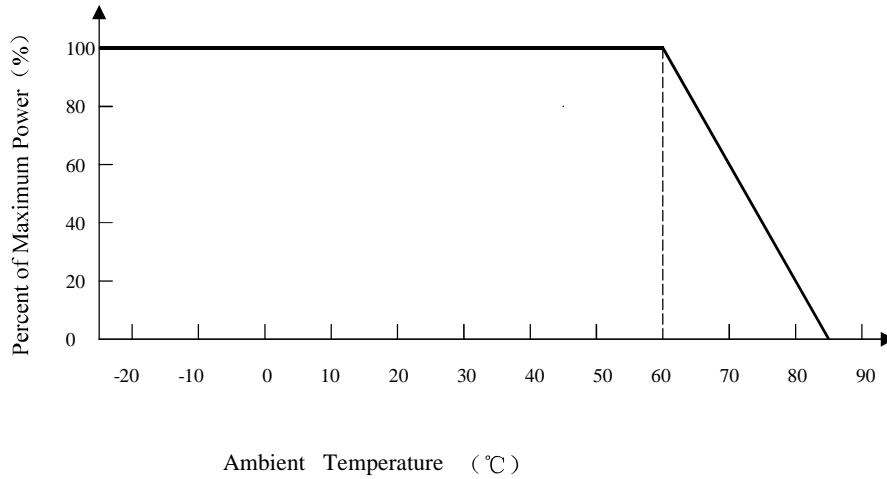
## 2 Technical Specifications

Parameter	Test Condition	Min	Typ	Unit
Input Voltage Range	36	48	72	Vdc
Input Under-voltage Protection	—	—	36	Vdc
Input Over-voltage Protection	72	—	—	Vdc
Typical Input Voltage	4.95	5.00	5.05	Vdc
Nominal Load	—	5	—	A
Output Voltage Adjustment Range ①		±10		%
Output Over-current Protection ①	5.5	—	7.5	A
Efficiency ①	80		%	
Load Regulation ②	—	± 0.1	± 0.5	%
Line Regulation	—	± 0.1	± 0.2	%
Output Ripple & Noise (mV <sub>p-p</sub> ) ①	—	—	50	mV
Insulation Strength	1500V <sub>dc</sub> (Input to Output) 1050 V <sub>dc</sub> (Input to Case) 500 V <sub>dc</sub> (Output to Case ) Leak Current ≤ 1mA, 1min		Vdc	
Temperature Coefficient	—	—	±0.02	%/°C
Operating Case Temperature	-25	—	+85	°C
Storage Temperature	-40	—	+125	°C

Note:

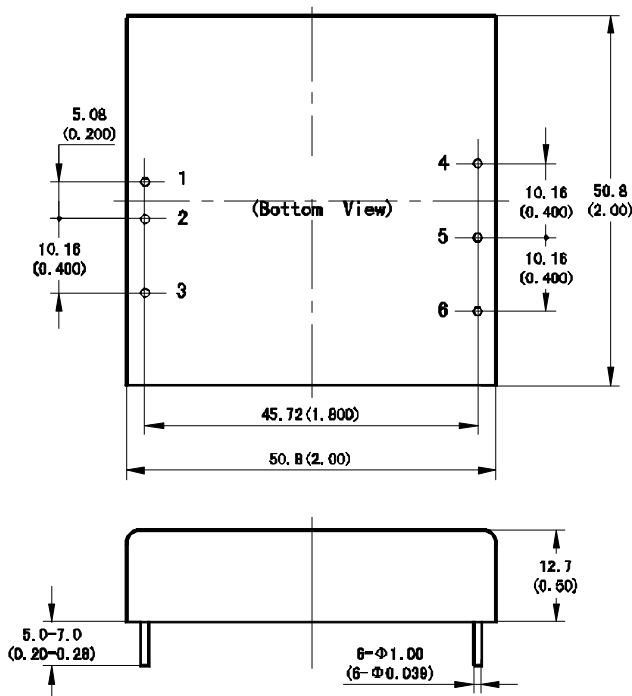
- ① Input voltage: 48V
- ② Load current: 0.1I<sub>nom</sub> ~ I<sub>nom</sub>

### 3 Thermal Derating Curve



### 4 Dimensions and Pin definition

Unit: mm Tolerances: .X±0.5, .XX±0.13



#### Pin Definition:

- |          |          |         |
|----------|----------|---------|
| 1: +Vin  | 2: -Vin  | 3: Rem  |
| 4: +Vout | 5: -Vout | 6: Trim |