

P 25

P 25 Watt Series DC/DC Converters

Total power 25 Watts
Input voltages 5V, 12V, 24V, 48V
#of outputs Single, Dual Output



SPECIAL FEATURES

- CE(LVD) Marking
- High efficiency
- 300KHz fixed frequency
- Wide 2:1 input range
- Surface mounting technology
- Small, compact size 2.56" x 2.0" x 0.35"
- Remote on / off control
- Output voltage variation (TRM)
- Over voltage protection (O.V.P.)
- Output low ripple and noise
- Current mode control
- Isolated output
- Low start up current
- 3 years warranty

ENVIRONMENTAL

- Operating temperature range -20 ~71
- Option, see Note 1 -40 ~85
- Storage temperature range -40 ~105
- Operating humidity (non condensing) 20%~90%RH
- Storage humidity (non condensing) 10%~95%RH
- Cooling method Convection
- Case material Zn
- MTBF (MIL-HDBK-217F) 4.7×10^5 hrs
- Safety(Single output) CE(EN60950)
 *Approved through TÜV

ELECTRICAL SPECIFICATIONS

INPUT	<ul style="list-style-type: none"> · Input range DC 4.5V - 9V, 9V - 18V, 18V - 36V, 36V - 72V · Efficiency 73 - 90% typ. · Remote on / off TTL compatible on : 0 to 1.2 VDC or short Vin-V off : 2.4 to 5.5 VDC or open
OUTPUT	<ul style="list-style-type: none"> · Voltage tolerance $\pm 2\%$ (Single and uncomplementary dual) $\pm 3\%$ (Complementary dual) · Line regulation $\pm 0.5\%$ · Load regulation $\pm 1\%$ @ single $\pm 2.5\%$ @ dual (minimum load 10%) · Ripple and Noise, pk-pk Bandwidth : 20MHz Magnitude : 1% Vout nom
PROTECTION CIRCUIT	<ul style="list-style-type: none"> · Short circuit protection Current limited output (note2) · Over voltage protection Work at 115 - 140% of rating
ELECTRICALLY ISOLATED	<ul style="list-style-type: none"> · Isolation Input-output, input-case, output-case / DC 500V, 100Mohms · High pot Input-output, input-case, output-case / AC 500V, 1minute

NOTE 1. As a factory added option, the all model can be operated down to -40 , the suffix 'M' should be added to the model number when ordering. ex) PS25-24-5M
 2. Long term continuous operation into a short circuit will compromise the reliability of the unit.

Ordering Information

Input	Output1	Output2	Maximum Power	Ripple&Noise max	Efficiency Typ.	Model Number
4.5 - 9V	3.3V@3.20A		10.56W	75mVp-p	73%	PS25-5-3R3
4.5 - 9V	5V@3.20A		16.0W	75mVp-p	75%	PS25-5-5
4.5 - 9V	12V@1.70A		20.4W	120mVp-p	77%	PS25-5-12
4.5 - 9V	15V@1.40A		21.0W	150mVp-p	77%	PS25-5-15
4.5 - 9V	+5V@1.60A	-5V@1.60A	16.0W	100/100mVp-p	75%	PD25-5-55
4.5 - 9V	+12V@0.85A	-12V@0.85A	20.4W	120/120mVp-p	77%	PD25-5-1212
4.5 - 9V	+15V@0.70A	-15V@0.70A	21.0W	150/150mVp-p	77%	PD25-5-1515
9 - 18V	3.3V@4.00A		13.2W	75mVp-p	83%	PS25-12-3R3
9 - 18V	5V@4.00A		20.0W	75mVp-p	85%	PS25-12-5
9 - 18V	12V@2.10A		25.2W	120mVp-p	89%	PS25-12-12
9 - 18V	15V@1.70A		25.5W	150mVp-p	89%	PS25-12-15
9 - 18V	+5V@2.00A	-5V@2.00A	20.0W	100/100mVp-p	80%	PD25-12-55
9 - 18V	+12V@1.05A	-12V@1.05A	25.2W	120/120mVp-p	86%	PD25-12-1212
9 - 18V	+15V@0.85A	-15V@0.85A	25.5W	150/150mVp-p	86%	PD25-12-1515
18 - 36V	3.3V@4.00A		13.2W	75mVp-p	83%	PS25-24-3R3
18 - 36V	5V@4.00A		20.0W	75mVp-p	85%	PS25-24-5
18 - 36V	12V@2.10A		25.2W	120mVp-p	89%	PS25-24-12
18 - 36V	15V@1.70A		25.5W	150mVp-p	90%	PS25-24-15
18 - 36V	+5V@2.00A	-5V@2.00A	20.0W	100/100mVp-p	82%	PD25-24-55
18 - 36V	+12V@1.05A	-12V@1.05A	25.2W	120/120mVp-p	86%	PD25-24-1212
18 - 36V	+15V@0.85A	-15V@0.85A	25.2W	150/150mVp-p	86%	PD25-24-1515
36 - 72V	3.3V@4.00A		13.2W	75mVp-p	83%	PS25-48-3R3
36 - 72V	5V@4.00A		20.0W	75mVp-p	85%	PS25-48-5
36 - 72V	12V@2.10A		25.2W	120mVp-p	90%	PS25-48-12
36 - 72V	15V@1.70A		25.5W	150mVp-p	90%	PS25-48-15
36 - 72V	+5V@2.00A	-5V@2.00A	20.0W	100/100mVp-p	82%	PD25-48-55
36 - 72V	+12V@1.05A	-12V@1.05A	25.2W	120/120mVp-p	86%	PD25-48-1212
36 - 72V	+15V@0.85A	-15V@0.85A	25.2W	150/150mVp-p	86%	PD25-48-1515

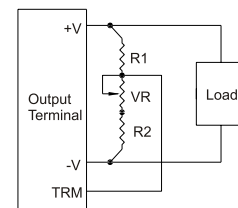
Pin assignments

Single Output	Dual Output
1. +Vin	1. +Vin
2. -Vin	2. -Vin
3. CNT	3. CNT
4. +Vout	4. +Vout
5. No pin	5. COM
6. -Vout	6. -Vou
7. TRM	7. TRM

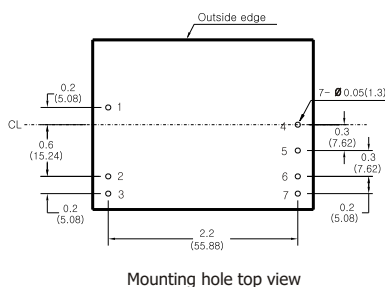
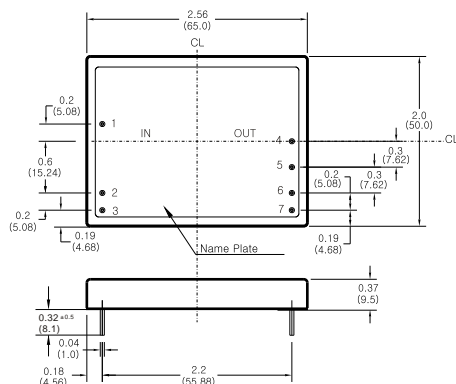
External Parts

Model	Output Voltage	VR	R1	R2
PS 25	5V	1K	1K	680
	12V	1K	3.9K	680
	15V	1K	5.6K	750
PD 25	± 5V (10V)	1K	3.3K	680
	± 12V (24V)	5K	9.0K	820
	± 15V (30V)	5K	20.0K	910

Trim method



Dimensions



NOTES

1. All dimensions are in inches and(mm).
2. Weight : 65g or less

Derating Curve

