

Features

- Small size and profile
- Up to 16A output current
- High efficiency up to 94%
- Low output ripple and noise
- Excellent thermal performance
- IUVP, OVP, OTP, OCP, SCP
- RoHS2.0



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage Note①	2.8-5.5Vdc
	3.0-5.5Vdc
	9-14Vdc
Remote Control Note②	Positive(P), Negative (N)

General Characteristics

Parameter	Specifications
Efficiency	94%(max.)
Operating ambient temperature	-40℃~+85℃
Storage temperature	-55℃~+125℃
Switching frequency	250-350kHz
Temperature coefficient	200PPM
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	2Mhours min. Telcordia SR332 Issue 3, 40℃
Packaging	SMD

Output Characteristic

Parameter	Specifications
Output power Note①	12-80W
Output voltage adjustment range	注①
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±3%Vo% /200us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	80mV(typ.)

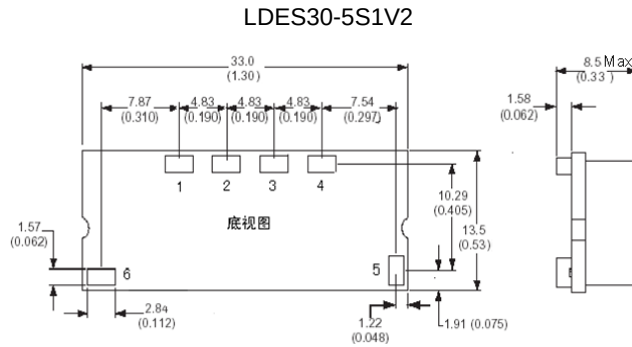
Protection Characteristic

Parameter	Specifications
Input under voltage protection	Yes
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])



Pin Designations

序号	符号	含义
1	GND	Negative input and output
2	Vo1	Positive output voltage
3	TRIM	Output voltage trim
4	+Sense	Remote Compensation
5	REM	Remote control
6	+Vin	Positive input voltage

Order information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
LDES30-5S1V2	3.0-5.5Vdc	1.2Vdc	10A	12W	85%	33.00*13.50*8.28mm
LDES20-5S0V75N	2.8-5.5Vdc	0.75-3.63Vdc	6A	20W	94%	27.90*11.40*7.46mm
LDES30-5S2V5	3.0-5.5Vdc	2.5Vdc	10A	25W	92%	33.00*13.50*8.28mm
LDES30-5S0V75NT	2.8-5.5Vdc	0.75-3.63Vdc	10A	36.3W	94%	33.00*13.50*8.28mm
LDES50-5S1V2	3.0-5.5Vdc	1.2Vdc	16A	50W	84%	33.00*13.46*8.50mm
LDES50-5S0V75N	3.0-5.5Vdc	0.75-3.63Vdc	16A	58W	93%	33.00*13.46*8.50mm
LDES80-12S0V75N	9-14Vdc	0.75-5.5Vdc	16A	80W	94%	33.00*13.50*8.30mm

Note: All information contained in this datasheet is subject to change without notice, please visit our official website www.suplet.com for the latest information and refer to the user manual for more details.