

15 / 20Watt

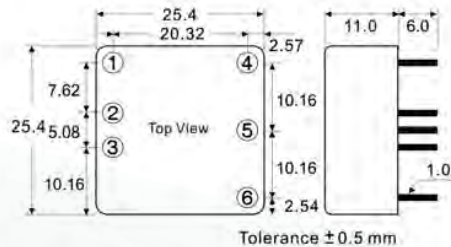
eSW15 /eSW20 Series



- ◆ Power Module for PCB Mountable
- ◆ The Smallest Dimension in the Market
- ◆ High Efficiency and Reliability
- ◆ 2:1 Input Range
- ◆ Regulated Output
- ◆ Low Ripple and Noise
- ◆ Remote ON/OFF Control
- ◆ 3-Year Warranty

Input Specifications	eSW15	eSW20
Voltage Range	12v - 9-18 VDC	24v - 18-36 VDC
Filter	48V - 36-75 VDC	L-C type
Output Specifications	eSW15	eSW20
Output Power	15 Watt (max.)	20 Watt (max.)
Voltage Accuracy	±2% (Full Load and Nominal Vin)	
Minimum Load	0% (at Full Load)	
Line Regulation	±0.5% (LL to HL at Full Load) (typ.)	
Load Regulation	± 1 % (10% to 100% at Full Load) (typ.)	
Ripple (20MHz bandwidth)	3.3S,5S:75mV	(Vp-p) (max.)
Noise (20MHz bandwidth)	12S,15S: 150mV	(Vp-p) (max.)
Temperature Coefficient	3.3S,5S:100mV (Vp-p) (max.)	
Short Circuit Protection	12S,15S: 125mV (Vp-p) (max.)	
General Specifications	±0.02% / °C (max.)	
	Current limit.Auto-recovery	
General Specifications	eSW15	eSW20
Efficiency (see table list)	84% to 89%	(typ.)
Frequency	3.3S,5S:450K Hz	(typ.)
Isolation Voltage	12S,15S:300K Hz	(typ.)
Isolation Resistance	1600 VDC	
Operating Temperature	10 <sup>3</sup> Ω (Input to Output) (min.)	
Storage Temperature	-25 °C to +70°C (at Full Load)	
Humidity	-55°C to +105°C	
Cooling	95% RH	(max.)
	Free-air Convection	
Physical Specifications	eSW15	eSW20
Dimension (Tolerance ±0.5 mm)	25.4 x 25.4 x 11.0 mm	
Weight	1.0 x 1.0 x 0.433 inches	
Case Material	15 g	
	Six-side shielded Aluminum with Non-Conductive base, Black Anodiz	

Outline Dimensions & Pin Connections



Model

eSW15 Single Output (2:1 Range)

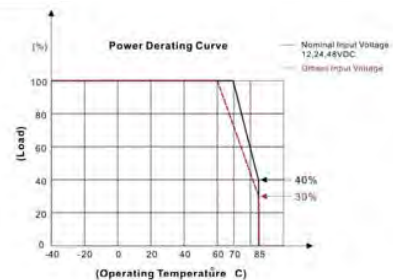
Model & Ordering No	Input Voltage (V.AC)	Output Volgage (V.DC)	Output Current (m.A) max.	Eff (%)
eSW15-12-3.3S	9~18	3.3	3500	85
eSW15-12-5S	9~18	5	3000	89
eSW15-12-12S	9~18	12	1250	88
eSW15-12-15S	9~18	15	1000	87
eSW15-24-3.3S	18~36	3.3	3500	86
eSW15-24-5S	18~36	5	3000	89
eSW15-24-12S	18~36	12	1250	89
eSW15-24-15S	18~36	15	1000	88
eSW15-48-3.3S	36~75	3.3	3500	84
eSW15-48-5S	36~75	5	3000	88
eSW15-48-12S	36~75	12	1250	88
eSW15-48-15S	36~75	15	1000	87

eSW20 Single Output (2:1 Range)

Model & Ordering No	Input Voltage (V.AC)	Output Volgage (V.DC)	Output Current (m.A) max.	Eff (%)
eSW20-12-3.3S	9~18	3.3	4500	85
eSW20-12-5S	9~18	5	4000	89
eSW20-12-12S	9~18	12	1660	88
eSW20-12-15S	9~18	15	1330	87
eSW20-24-3.3S	18~36	3.3	4500	86
eSW20-24-5S	18~36	5	4000	89
eSW20-24-12S	18~36	12	1660	89
eSW20-24-15S	18~36	15	1330	88
eSW20-48-3.3S	36~75	3.3	4500	84
eSW20-48-5S	36~75	5	4000	88
eSW20-48-12S	36~75	12	1660	89
eSW20-48-15S	36~75	15	1330	88

Derating

eSW15 Series



eSW20 Series

