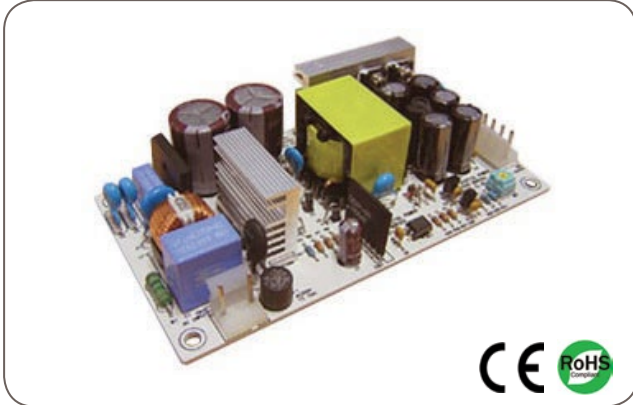


OFS75

MAX. Power 75W Isolated Open Frame Type AC-DC Converter

OFS75 Series Isolated Open Frame Type AC-DC Converter



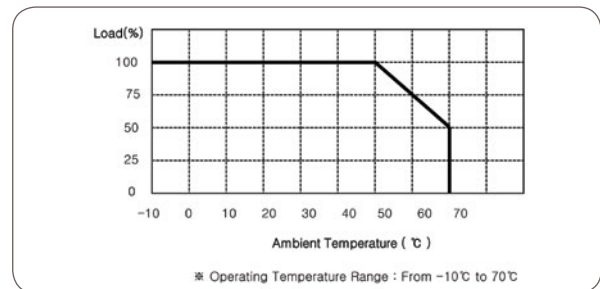
Features

- Power Saving Mode Operation
- High Efficiency
- Isolated Input - Output
- 60kHz fixed frequency and Current mode Control
- Low output Ripple & Noise
- Built-in over current protection circuit
- Short Circuit Protection
- Universal Input Voltage(Free Voltage)
- Built in EMI Filter
- Safety standard : CE approved
- RoHS compatible design
- 2-years warranty

Environment

- Operating Temperature : -10°C ~ 70°C
- Operating Humidity : 20% ~ 90% RH (Non condensing)
- Storage Temperature : -20°C ~ 75°C
- Cooling : Free-Air Convection
- MTBF : 3.8 x 10⁵ hrs

Derating Curve



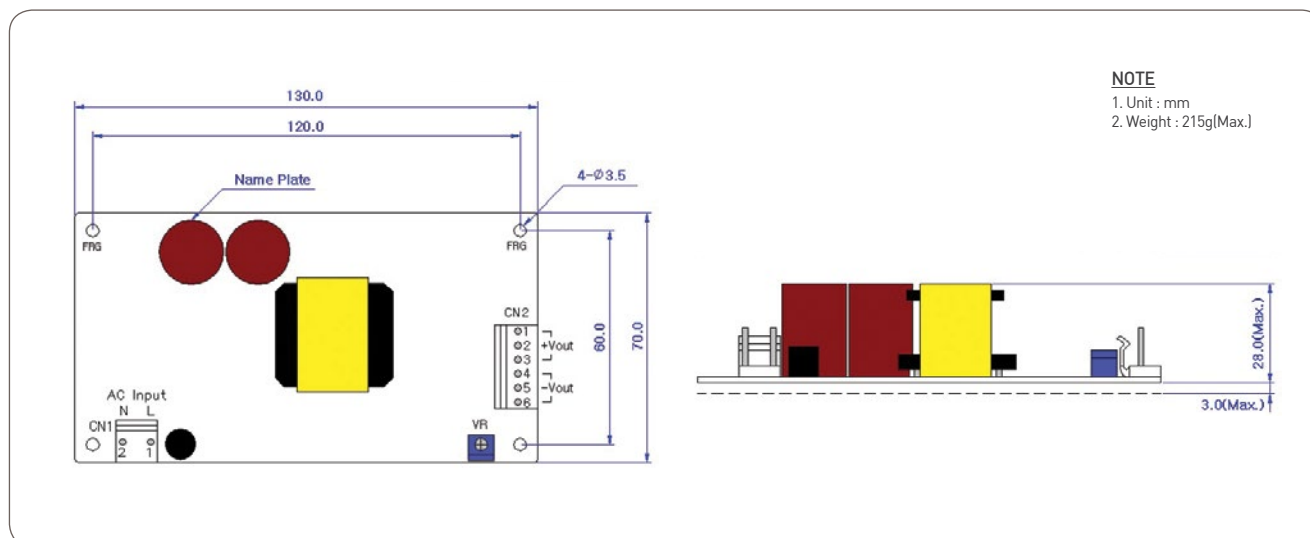
General Specifications

Input	Power Saving	less than 0.5W (@Input : 230Vac, Output : No Load)
	Voltage Range	AC90V ~ 264V OR DC120V ~ 370V
	Frequency	44 ~ 440Hz(50Hz, 60Hz Typ.)
	Current	OFS10 : 0.33Amax, OFS15 : 0.49Amax OFS30 : 0.89Amax, OFS40 : 1.19Amax OFS50 : 1.25Amax, OFS60 : 1.50Amax OFS75 : 1.70Amax OFS100H : 1.20Amax, OFS100L : 2.30Amax
	Efficiency	86% ~ 88%
	Inrush Current	30Amax.(110Vac), 60Amax.(220Vac) @ Cold start
	Leakage Current	OFS10 ~ OFS75 : 0.2mAmax.(110Vac), 0.35mAmax.(220Vac) OFS100H : 0.75mAmax.(220Vac) OFS100L : 0.5mAmax.(110Vac)
Output	Output Voltage	12V, 15V, 24V
	Line Regulation	± 1.0%
	Load Regulation	± 1.0%
	Output Voltage adj. Range	± 10%
	Ripple & Noise	1%(Peak to Peak) Max.
Protection Circuit	Over Current Protection	Works at over 105% of rating and recovers automatically
	Over Voltage Protection	Works at over 115% ~ 140% of rating
Electrically Isolated	Input - Output	AC3kV, 1minute / DC500V, 100MΩ min
	Input - FRG	AC2kV, 1minute / DC500V, 100MΩ min
	Output - FRG	AC0.5kV, 1minute / DC500V, 70MΩ min

OFS75 Series Ordering Information (Single Output)

MODEL		OFS75 - 12	OFS75 - 15	OFS75 - 24
Input Voltage (V)		AC90V ~ 264V, 44Hz ~ 440Hz or DC120V ~ 370V		
Power Saving		less than 0.5W (@Input : 230Vac, Output : No Load)		
Output	Vout (V)	12	15	24
	Iout (A)	6.25	5	3.15
Maximum Power (W)		75	75	75.6
Ripple & Noise (mVp-p)		120	150	200
Efficiency Typ. (%)		86	87	88
Output Voltage adj. Range [%]		±10	±10	±10

Outline Dimensions : (Unit : [mm])



Matching Crimp Housing & Terminals

	Crimp Housings	Terminals
CN1	Molex 09 - 52 - 4034 or equivalent	Molex 08 - 70 - 0012 or equivalent
CN2	Molex 09 - 52 - 4064 or equivalent	

Pin assignments

	Pin No.	Function
CN1	1	AC Input L
	2	AC input N
CN2	1, 2, 3	DC Output +V
	4, 5, 6	DC Output -V(GND)