ILPA60JU SERIES

60W Water-Proof Constant Current LED Driver



- Wide Input Voltage 90 to 305VAC, 47 to 63Hz
- Constant Output Current Available From 350mA To 5000mA
- Over Voltage, Short Circuit, Lighting, and Over Temperature Protection
- High Efficiency (up to 91%)
- Active Power Factor Correction (PFC) (99% typical)
- IP67 Waterproof Rating, Metal Housing
- Comply with UL8750 & EN61347 Safety Regulation

2 Year Warranty

Approvals: c UL us CE IP67 RoHS

Single Output

Part Number	Output Current Range (Min. / Typ. / Max.)	Output Voltage (Min. / Max.)	Efficiency (220VAC, Full Load)	Over Voltage Protection (Typ/Max)	Max. Output Power
ILPA60JU-S500ST	4750 / 5000 / 5250mA	6 / 12 VDC	87%	15 / 17VDC	60W
ILPA60JU-S330ST	3135 / 3300 / 3465mA	9 / 18 VDC	88%	23 / 25VDC	60W
ILPA60JU-S230ST	2185 / 2300 / 2415mA	13 / 27 VDC	89%	35 / 38VDC	60W
ILPA60JU-S170ST	1615 / 1700 / 1785mA	18 / 36 VDC	90%	42 / 45VDC	60W
ILPA60JU-S140ST	1330 / 1400 / 1470mA	21 / 43 VDC	90%	50 / 55VDC	60W
ILPA60JU-S105ST	1000 / 1050 / 1100mA	29 / 58 VDC	90%	65 / 70VDC	60W
ILPA60JU-S070ST	665 / 700 / 735mA	43 / 86 VDC	91%	92 / 102VDC	60W
ILPA60JU-S045ST	428 / 450 / 472mA	67 / 134 VDC	91%	145 / 160VDC	60W
ILPA60JU-S035ST	332 / 350 / 368mA	85 / 170 VDC	91%	195 / 215VDC	60W

Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Input Voltage	Operating Voltage	90		305	VAC
Input Frequency		47		63	Hz
Output Power Range	Vin=90 to 305VAC	0		60	W
Input Current (Low Line)	Io=Full load, Vin=115VAC			0.80	A
Input Current (High Line)	Io=Full load, Vin=230VAC			0.36	A
High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC			50	A
Power Factor Correction	Vin=110VAC		95	99	%
Efficiency	Io=Full Load, Vin=220VAC		87	91	%
Line Regulation	Io=Full Load			1	%
Load Regulation	Vin=230VAC			3	%
Over Voltage Protection	Latch mode. The power unit shall return to normal operation only after the power is turn-on again. (Please refer to output table.)				
Over Temperature Protection			110		°C
Short Circuit Protection	No damage shall occur when any output operating in a short circuit condition. The power supply shall be self-recovery when the fault condition is removed.				
Output Overshoot / Undershoot	When power on or off			10	%
Start Up Time	Io=Full Load, Vin=100VAC			0.6	S
Ripple & Noise (Peak to Peak)	Measured by 20 MHz bandwidth oscilloscope and the output paralleled a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor.			5	% Vo

Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	Humidity: 10% RH to 100% RH	-35		70	°C
Storage Temperature	Humidity: 5% RH to 100% RH	-40		85	°C
MTBF: Operation temperature at 25°C, calculated per MIL-HDBK-217F		0.546M			Hours
Life Time at 25°C ambient temperature		0.080M			Hours

Approvals and Compliance

Parameter	Standards
EMI	EN55015
EMS	EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, , EN61000-4-4, , EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61547
Safety UL/c-UL, CE	UL8750 Compliant to UL1310 ClaST 2, UL1012, UL935, CSA-C22.2 No. 0, CSA-C22.2 No. 107.1, CSA-C22.2 No.250.0, EN61347-1,EN61347-2-13
Waterproof	IP67 Rating

Mechanical

Parameter	Specification
Dimension,	150x67.5x37mm (5.91x2.66x1.46 inches)
Net Weight	750g approx.

