ILPA30JW SERIES

30W Water-Proof Constant Current LED Driver



- Wide Input Voltage 90 to 264VAC, 47 to 63Hz
- Constant Output Current Available From 0.35A To 2.5A
- Over Voltage, Short Circuit, Lighting, and Over Temperature Protection
- High Efficiency (up to 86%)
- Active Power Factor Correction (PFC) (86% 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 Range (Min. / Max.)	Efficiency (220VAC, Full Load)	Over Voltage Protection (Min/Typ/Max)	Max. Output Power
ILPA30JW-S250SS	2375 / 2500 / 2625 mA	7 / 12 VDC	83%	14 / 16 / 18 VDC	30W
ILPA30JW-S166SS	1580 / 1660 / 1740 mA	9 / 18 VDC	84%	22 / 24 / 27 VDC	30W
ILPA30JW-S125SS	1190 / 1250 / 1310 mA	13 / 24 VDC	85%	29 / 32 / 36 VDC	30W
ILPA30JW-S083SS	790 / 830 / 870 mA	18 / 36 VDC	86%	43 / 48 / 54 VDC	30W
ILPA30JW-S070SS	665 / 700 / 735 mA	21 / 42 VDC	86%	50 / 57 / 63 VDC	30W
ILPA30JW-S045SS	428 / 450 / 472 mA	33 / 66 VDC	86%	79 / 89 / 99 VDC	30W
ILPA30JW-S035SS	333 / 350 / 367 mA	43 / 86 VDC	87%	103 / 116 / 129 VDC	30W

Item -S250SS, -S166SS, -S125SS use Class 2 output (USR & CNR).
Item -S083SS, -S070SS -S045SS, -S035SS use Non-Class 2 output (USR & CNR).

Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Input Voltage	Operating Voltage	90		264	VAC
Input Frequency		47		63	Hz
Output Power Range	Vin=90 to 264VAC	0		30	W
Input Current (Low Line)	Io=Full load, Vin=115VAC			0.43	A
Input Current (High Line)	Io=Full load, Vin=230VAC			0.25	A
High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC			65	A
Power Factor Correction	Vin=110VAC		86		%
Efficiency	Io=Full Load, Vin=230VAC	82.5		87	%
No-Load Power Consumption	No Load, VIn=230VAC			1	W
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			3	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.			2	% Vo

Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	Humidity: 10% RH to 100% RH	-35		60	°C
Storage Temperature	Humidity: 5% RH to 100% RH	-40		85	°C
Operation temperature at 25°C, calculated per MIL-HDBK-217F		0.3M			Hours
Life Time at 25°C ambient temperature		0.08M			Hours
No output power derating from -35°C to 60°C					

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, EN61000-4-1-1, EN61547
Safety UL/c-UL, CE	UL8750 Compliant to UL1310 Class 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,	162x34.5x42.5mm (6.38x1.36x1.67 inches)
Net Weight	460g

