



### Approval Marks



	Item	Value	Remark
	Nominal voltage	120–277V	
	Nominal frequency	50–60Hz	
	AC voltage range	108–305V	
	DC voltage range (start)	NA	
	DC voltage range (operation)	NA	
	Nominal current	1100mA	Full load @120VAC
		600mA	Full load @230VAC
Input	Total Harmonic Distortion (THD)	< 20%	Full load @230VAC
	Power factor	0.95	Full load @230VAC
	Displacement factor	0.95	Full load @230VAC
	Efficiency	86% (Typ.)	Full load 54V/1.85A @120VAC
		89% (Typ.)	Full load 54V/1.85A @230VAC
	No-load power	NA	
	Stand-by power	NA	
	Protection class	I	Suitable for class I luminaires
	Inrush current	90 A / 400 $\mu$ s	
	Earth leakage current	<0.7mA	
	Nominal voltage range		
	Full power voltage range	33-54Vdc	Full load 100W
	Derating power voltage range	28-54Vdc	28-36V Derating use.
	Maximum voltage	60Vdc	
Output	Nominal current range		
	Full power current range	1850-3000mA	54V/1850mA-33V/3000mA
	Derating power current range	1500-3000mA	
	Current accuracy	$\pm$ 5%	Full load @ 120/230Vac
	Typical output LF current ripple	10%	Low Frequency< 120Hz Full load , Peak to Average
	Nominal power range	42-100W	
	Maximum power	100W	

Item	Value	Remark	
Ambient temperature range $t_a$	-30°C - +60°C		
Maximum case temperature $t_c$	85°C		
Max. case temp. in fault condition	110°C	When operating under fault conditions, the temperature of the enclosure at any location should not exceed 110 °C	
<b>Environment</b>	Storage temperature range	-40°C - +90°C	
	Relative humidity	5% - 95%	
	Surge transient protection	4kV , 4kV	L/N , L-PE/N-PE
	Environmental rating	Indoor / Outdoor	
	IP rating	IP65	
	Mains switching cycles	> 100,000	

Expected lifetime	> 55,000 h, $t_c$ 75 °C 80% Load	5 Years	0.18 % / 1,000 h failure rate
	> 100,000 h, $t_c$ 65 °C 80% Load		0.1 % / 1,000 h failure rate

<b>Packing</b>	Gross weight/box	13 kg
	Net weight/box	12 kg
	Pcs/box	10 PCS
	Dimension/box	500(L)*390(W)*170(H)mm

#### Protections

Short- & open circuit proof, Auto. overheat regulation or cut off, Overload protection

#### Conformity & Standards

Safety standard:	EN 61347, EN 62493
Performance:	EN 62384
EMC standard:	EN 55015, EN 61000-3-2, EN 61547, EN 61000-3-3

#### Cable information

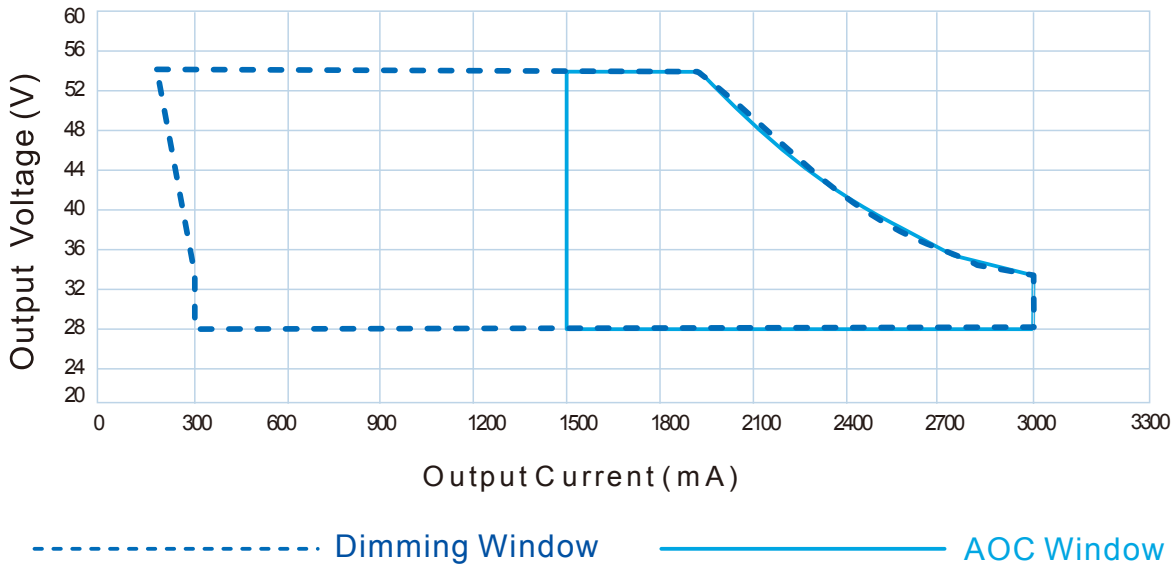
<b>PRI</b> Connection	L		N		PE	
	USA	Europe	USA	Europe	USA	Europe
Color	Black	Brown	White	Blue	Green	Yellow/Green
Wire type	SJTW	H05RN-F	SJTW	H05RN-F	SJTW	H05RN-F
Wire diameter	AWG18		AWG18		AWG18	
Wire length	300mm		300mm		300mm	
Stripping	6mm		6mm		6mm	
Tolerance	±10mm		±10mm		±10mm	

<b>Sec</b> Connection	+		-	
	USA	Europe	USA	Europe
Color	Red	Brown	Black	Blue
Wire type	SJTW	H05RN-F	SJTW	H05RN-F
Wire diameter	AWG18		AWG18	
Wire length	300mm		300mm	
Strip length	6mm		6mm	
Tolerance	±10mm		±10mm	

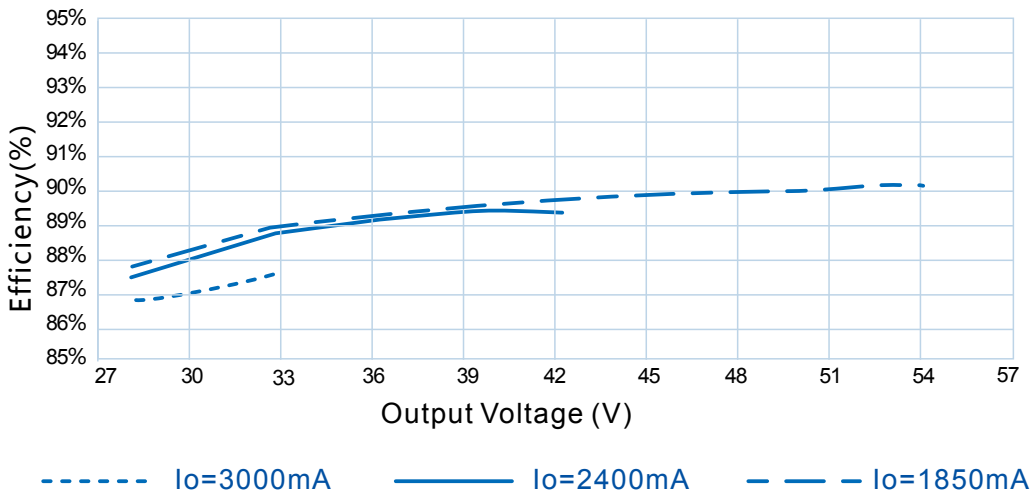
\* If not mentioned, all the test conditions are based on full load at 120/230VAC input (for 120-277 VAC input).

\*Subject to change without notice, HEP guarantees all products perform functionally well\*

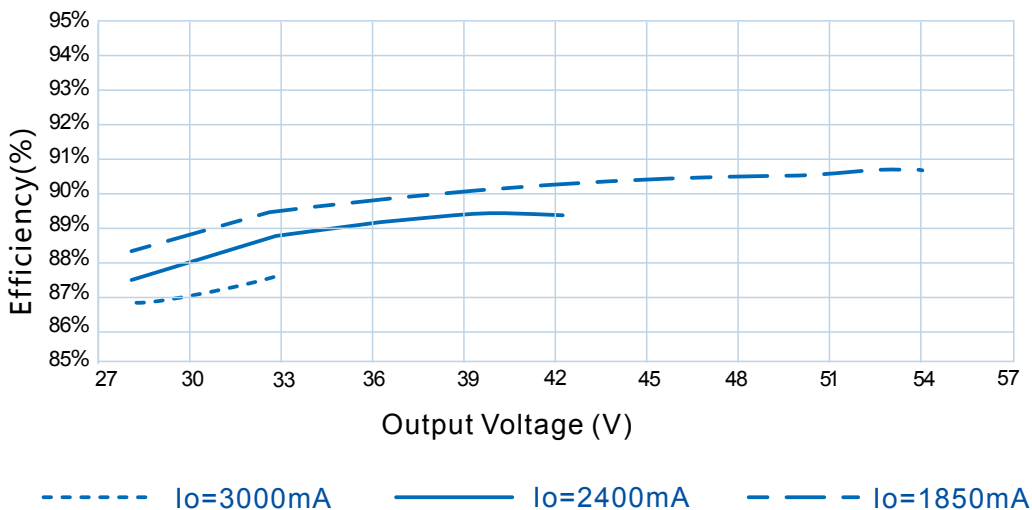
### Output Voltage Vs. Output Current(AOC Window)



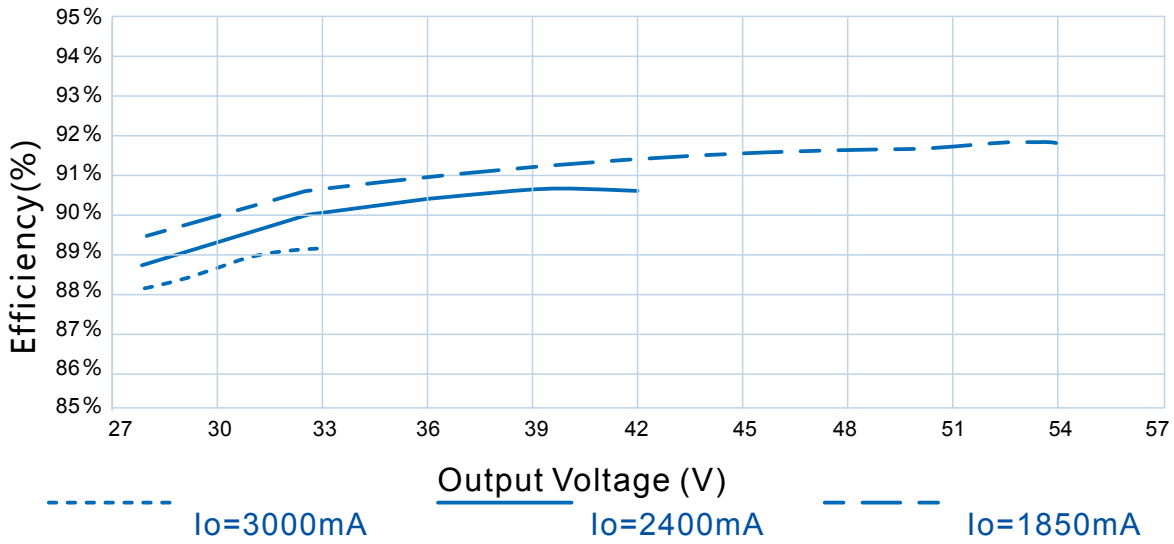
### Efficiency Vs. Output Voltage (Vin=120Vac)



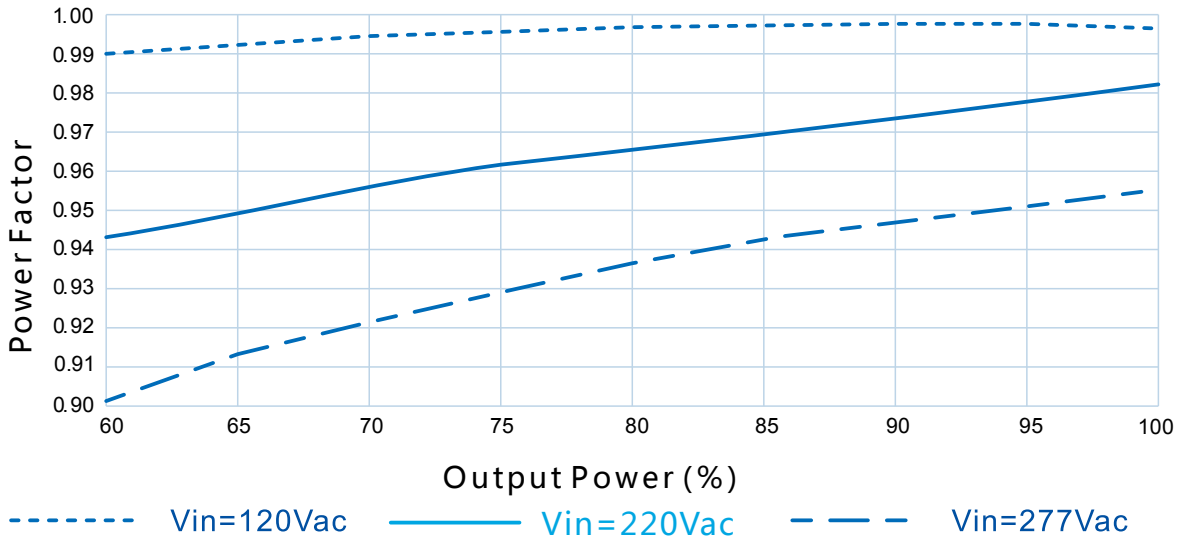
### Efficiency Vs. Output Voltage (Vin=220Vac)



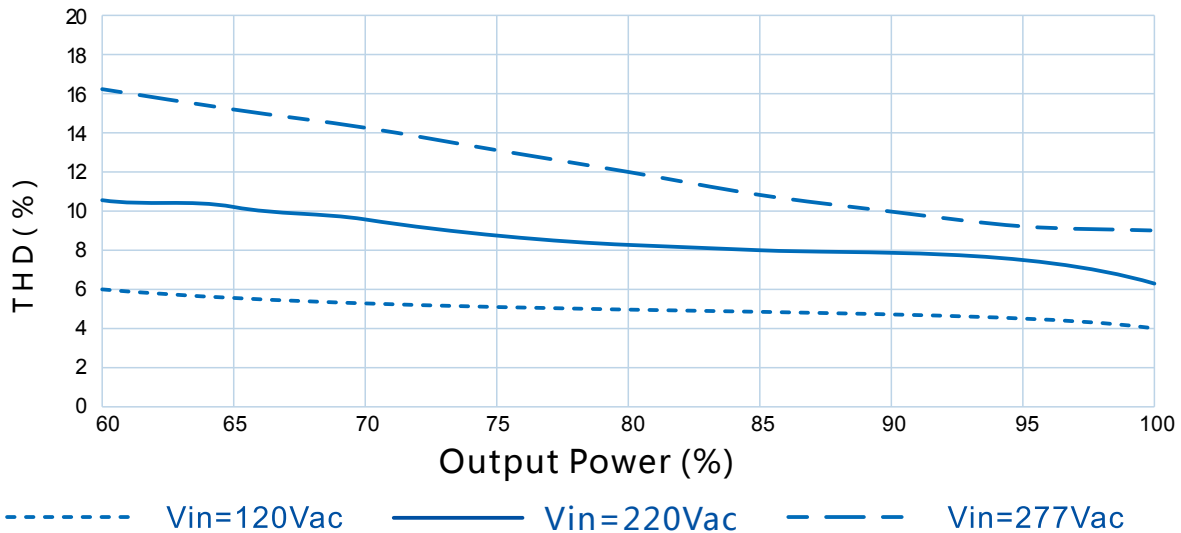
### Efficiency Vs. Output Voltage (Vin=277Vac)



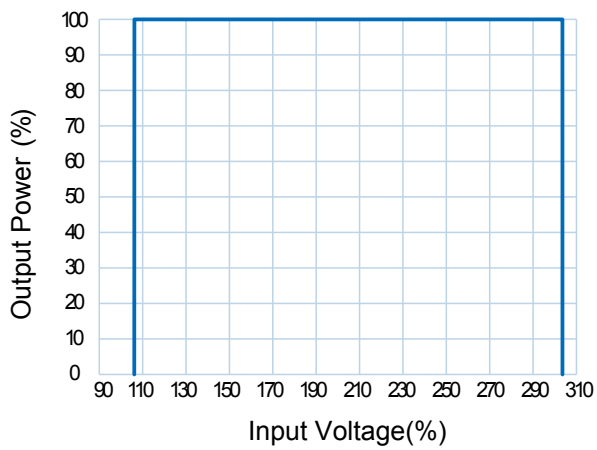
### Power Factor Vs. Output Power



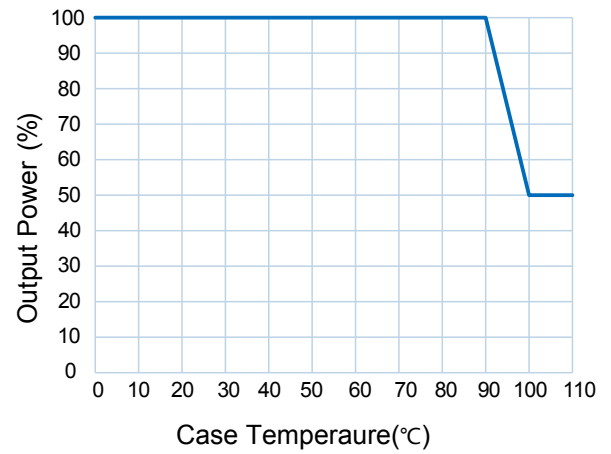
### THD Vs. Output Power



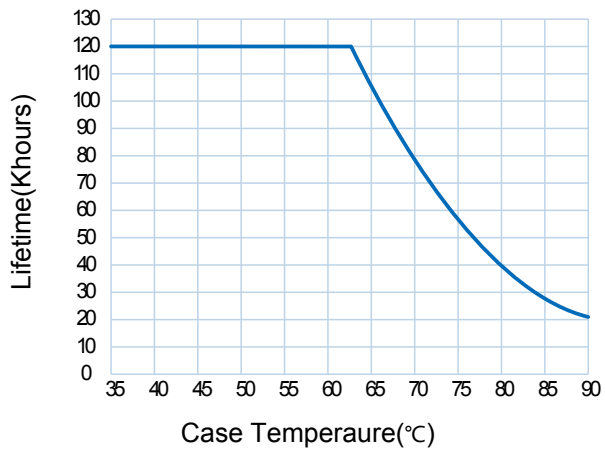
Output power Vs. Input Voltage  
(Ta Max.60°C)



Output power Vs. Case Temperature



Lifetime Vs. Case Temperature



**HEP GROUP®**  
 HEP GmbH - Ramsloh 10  
 58579 Schalksmuehle  
 Germany





**LED Driver**  
**LERC100W3000CALRP UNI**

UN= 120-277Vac  
 IN= 1.1A max.  
 $\lambda$ = 0.9C  
 fn= 50-60Hz  
 ta= -30°C - +60°C

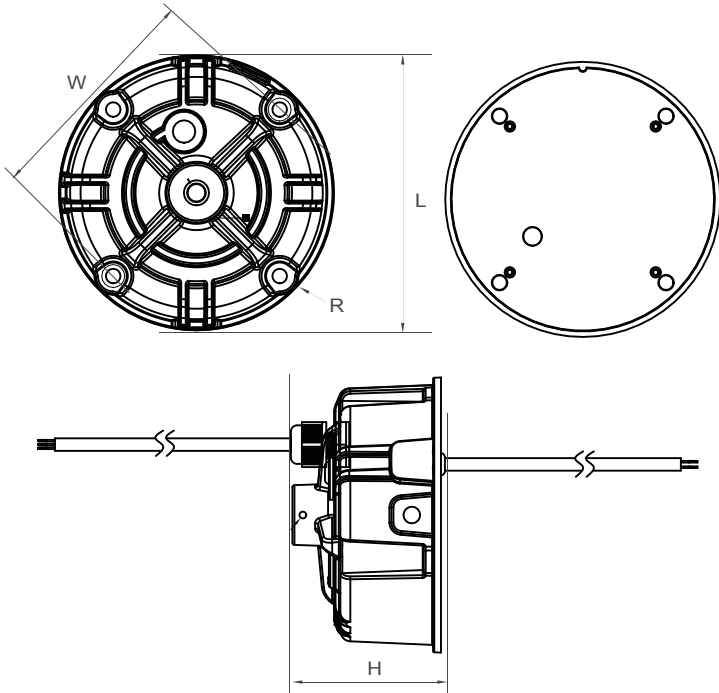
Urange= 28-54Vdc  
 Irange= 1500-3000mA  
 Prated= 42-100W  
 UoUT= 60V

tc= 85°C  
 ta= 60°C

SEC BN + ○  
 BU - ○

RoHS SELV    

**Physical  
 Parameter**



L : 132 mm W : 113 mm thread pitch : M10\*15 / G 1/2  
 H : 71.5 mm R : 7 mm

Tolerance : +/-1 mm , R : +/-0.5 mm

Housing Material : Metal / Potting  
 Soldering : Lead-Free, Comply With RoHS  
 Label : Surface Print

**Wiring Diagram**

