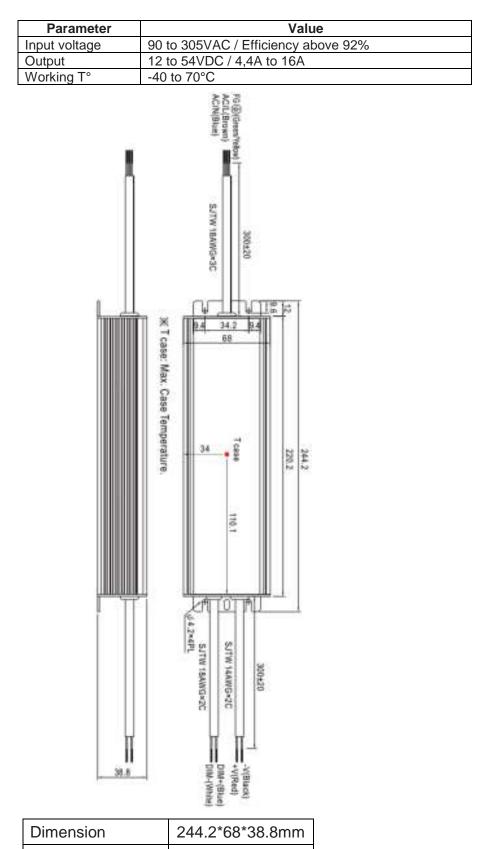


BATTERY CHARGER



1.3Kgs

Packing

STRENGTH OF ACTIVE BMS

EVER Technology

The patented *EVER* technology (Electronic system for Variable Energy Redistribution) integrates on a single chip all the power components needed for high energy active balancing.

SHIFT TO ACTIVE

With a footprint reduced by 30%, active balancing is now within the reach of your application.

CONSIDER MAINTENANCE

With the integrated diagnostic system, identify and replace only defective cells throughout the life cycle of your product.

APPLICATIONS

The expandable BMS module is appropriate for a wide range of applications powered by Li+ battery. From electrical vehicles to emergency power units and battery pack integrators, the ENERSTONE solutions meet the most demanding needs.





	MODEL	HLG-240H-15	HLG-240H-20	HLG-240H-30	HLG-240H-42	HLG-240H-54	
	Model	Esource 4S - F 15A	Esource 4S - N 12A	Esource 6/7/8S - 8A	eSource 10S - 5,7A	eSource 13S/15S - 4,5A	
	DC VOLTAGE	15V	20V	30V	42V	54V	
	CONSTANT CURRENT REGION Note.4 6 ~12V	7.5 ~ 15V	10 ~ 20V	15 ~ 30V	21 ~ 42V	27 ~ 54V	
	RATED CURRENT	15A	12A	8A	5.72A	4.45A	
	RATED POWER	225W	240W	240W	240.24W	240.3W	
	RIPPLE & NOISE (max.) Note.2 150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	350mVp-p	
	VOLTAGE ADJ. RANGE Note.6 11.2 ~ 12.8V	14 ~ 16V	18.6 ~ 21.4V	28 ~ 32V	39 ~ 45V	50 ~ 57V	
OUTPUT	Can be adjusted by internal potentiometer A type and C type only	у					
CUF	RRENT ADJ. RANGE						
		7.5 ~ 15A	6 ~ 12A	4 ~ 8A	2.86 ~ 5.72A	2.23 ~ 4.45A	
	VOLTAGE TOLERANCE Note.3 ±2.5%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME		Note.9 1000ms	s,80ms/115VAC 500	ms,80ms/230VAC at full load		
	HOLD UP TIME (Typ.)			15ms at full load 230	VAC /115VAC		
	VOLTAGE RANGE		N	ote.5 90 ~ 305VAC	127 ~ 431VDC		
	FREQUENCY RANGE	FREQUENCY RANGE 47 ~ 63Hz					
POV	NER FACTOR (Typ.) PF>0.98/115VAC, PF>0.95/230VAC at full loa	ad (Please refer to "Power Fa	actor Characteristic" cur	ve) TOTAL HARMON	IC DISTORTION THD< 209	≧ 6 when output loading 50%	
						% when output loading 50%	
	WER FACTOR (Typ.) PF>0.98/115VAC, PF>0.95/230VAC at full loa EFFICIENCY (Typ.)		actor Characteristic" cur 9 91.5%	92.5%	92.5%		
					92.5%	% when output loading 50%	
NPUT	EFFICIENCY (Typ.)	0,	9 91.5%	92.5% 1.2A / 277V	92.5% AC	% when output loading 50%	
INPUT	EFFICIENCY (Typ.) AC CURRENT (Typ.)	0,	9 91.5%	92.5% 1.2A / 277V	92.5% AC	% when output loading 50%	
INPUT	EFFICIENCY (Typ.) AC CURRENT (Typ.) USH CURRENT (Typ.) COLD START 75A(twidth=570 s measu	0, red at 50% lpeak) at 230V	9 91.5% AC _µ LEAKAGE CURR	92.5% 1.2A / 277V RENT <0.75mA / 277VA	92.5% AC C	6 when output loading 50% 93.5%	
INPUT	EFFICIENCY (Typ.) AC CURRENT (Typ.) USH CURRENT (Typ.) COLD START 75A(twidth=570 s measur 95 ~ 108%	0, red at 50% lpeak) at 230V 95 ~ 108%	9 91.5% AC _µ LEAKAGE CURR 95 ~ 108%	92.5% 1.2A / 277V RENT <0.75mA / 277VA	92.5% AC C	6 when output loading 50% 93.5%	
INPUT	EFFICIENCY (Typ.) AC CURRENT (Typ.) USH CURRENT (Typ.) COLD START 75A(twidth=570 s measu 95 ~ 108% OVER CURRENT	o, red at 50% Ipeak) at 230V 95 ~ 108% vers automatically after fault	9 91.5% AC _µ LEAKAGE CURR 95 ~ 108% condition is removed	92.5% 1.2A / 277V RENT <0.75mA / 277VA	92.5% AC C 95 ~ 108%	6 when output loading 50% 93.5%	
INPUT	EFFICIENCY (Typ.) AC CURRENT (Typ.) USH CURRENT (Typ.) COLD START 75A(twidth=570 s measur 95 ~ 108% OVER CURRENT Protection type : Constant current limiting, reco	o, red at 50% Ipeak) at 230V 95 ~ 108% vers automatically after fault	9 91.5% AC _µ LEAKAGE CURR 95 ~ 108% condition is removed	92.5% 1.2A / 277V. RENT <0.75mA / 277VA 95 ~ 108%	92.5% AC C 95 ~ 108%	6 when output loading 50% 93.5%	
INPUT INR	EFFICIENCY (Typ.) AC CURRENT (Typ.) USH CURRENT (Typ.) COLD START 75A(twidth=570 s measur 95 ~ 108% OVER CURRENT Protection type : Constant current limiting, reco	0, red at 50% lpeak) at 230V 95 ~ 108% vers automatically after fault Hiccup mode, recove	9 91.5% AC _µ LEAKAGE CURR 95 ~ 108% condition is removed rs automatically after fa	92.5% 1.2A / 277V RENT <0.75mA / 277VA 95 ~ 108% ult condition is removed	92.5% AC C 95 ~ 108%	6 when output loading 509 93.5% 95 ~ 108%	
INPUT INR	EFFICIENCY (Typ.) AC CURRENT (Typ.) USH CURRENT (Typ.) COLD START 75A(twidth=570 s measur 95 ~ 108% OVER CURRENT Protection type : Constant current limiting, reco SHORT CIRCUIT	0, red at 50% Ipeak) at 230V 95 ~ 108% vers automatically after fault Hiccup mode, recove 17.5 ~ 21.5V	9 91.5% AC _μ LEAKAGE CURR 95 ~ 108% condition is removed rs automatically after fa 23.5 ~ 27.5V	92.5% 1.2A / 277V RENT <0.75mA / 277VA 95 ~ 108% ult condition is removed	92.5% AC C 95 ~ 108%	6 when output loading 509 93.5% 95 ~ 108%	
INPUT INR	EFFICIENCY (Typ.) AC CURRENT (Typ.) USH CURRENT (Typ.) COLD START 75A(twidth=570 s measur 95 - 108% OVER CURRENT Protection type : Constant current limiting, reco SHORT CIRCUIT ER VOLTAGE	0, red at 50% Ipeak) at 230V 95 ~ 108% vers automatically after fault Hiccup mode, recove 17.5 ~ 21.5V	9 91.5% AC _μ LEAKAGE CURR 95 ~ 108% condition is removed rs automatically after fa 23.5 ~ 27.5V	92.5% 1.2A / 277V RENT <0.75mA / 277VA 95 ~ 108% ult condition is removed	92.5% AC C 95 ~ 108%	6 when output loading 509 93.5% 95 ~ 108%	
INPUT INR	EFFICIENCY (Typ.) AC CURRENT (Typ.) USH CURRENT (Typ.) COLD START 75A(twidth=570 s measur 95 ~ 108% OVER CURRENT Protection type : Constant current limiting, reco SHORT CIRCUIT ER VOLTAGE Protection type : Shut down and latch off o/p vo	0, red at 50% Ipeak) at 230V 95 ~ 108% vers automatically after fault Hiccup mode, recove 17.5 ~ 21.5V	9 91.5% AC _μ LEAKAGE CURR 95 ~ 108% condition is removed rs automatically after fa 23.5 ~ 27.5V	92.5% 1.2A / 277V RENT <0.75mA / 277VA 95 ~ 108% ult condition is removed	92.5% AC C 95 ~ 108%	6 when output loading 509 93.5% 95 ~ 108%	
INPUT	EFFICIENCY (Typ.) AC CURRENT (Typ.) USH CURRENT (Typ.) COLD START 75A(twidth=570 s measur 95 ~ 108% OVER CURRENT Protection type : Constant current limiting, reco SHORT CIRCUIT ER VOLTAGE Protection type : Shut down and latch off o/p vo OVER TEMPERATURE	0, red at 50% Ipeak) at 230V 95 ~ 108% vers automatically after fault Hiccup mode, recove 17.5 ~ 21.5V	9 91.5% AC _μ LEAKAGE CURR 95 ~ 108% condition is removed rs automatically after fa 23.5 ~ 27.5V	92.5% 1.2A / 277V RENT <0.75mA / 277VA 95 ~ 108% ult condition is removed	92.5% AC C 95 ~ 108%	6 when output loading 509 93.5% 95 ~ 108%	
INPUT	EFFICIENCY (Typ.) AC CURRENT (Typ.) USH CURRENT (Typ.) COLD START 75A(twidth=570 s measur 95 ~ 108% OVER CURRENT Protection type : Constant current limiting, reco SHORT CIRCUIT ER VOLTAGE Protection type : Shut down and latch off o/p vo OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY	0, red at 50% Ipeak) at 230V 95 ~ 108% vers automatically after fault Hiccup mode, recove 17.5 ~ 21.5V	9 91.5% AC _μ LEAKAGE CURR 95 ~ 108% condition is removed rs automatically after fa 23.5 ~ 27.5V	92.5% 1.2A / 277V RENT <0.75mA / 277VA 95 ~ 108% ult condition is removed	92.5% AC 95 ~ 108% 48 ~ 54V	6 when output loading 509 93.5% 95 ~ 108%	

UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750, CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13 independent

SAFETY STANDARDS

UL60950-1, UL8750, TUV EN60950-1, IP65 or IP67, J61347-1, J61347-2-13 approved