



Allis Electric Co., Ltd.

SWITCHING
MODE RECTIFIER



ES Series

48V/10-125A



Features

- Innovative single phase or three phase input
- Power factor > 0.99
- High efficiency of 96%
- Hot pluggable, easy for maintenance and expansion
- Active or passive load sharing
- Light Weight
- Exceptional power density with small volume

Model	ES3048	ES60482	ES60483
INPUT			
Voltage	90 to 275Vac Single Phase < 185 Vac (derating)	220Vac ±15% (3-Phase, 3W+PE) < 187Vac (derating)	380Vac ±15% (3-Phase, 4W+PE) < 323Vac (derating)
Current	< 17A	< 20A	< 12A
Frequency	50 / 60 Hz		
Power Factor	> 0.99		
Efficiency	≥ 95%	≥ 96%	
Total Harmonic Distortion	THD < 5% at full load		
Surge Protection	IEEE C 62.41 / IEC 61000-4-5 / IEC 61000-4-4		
Inrush Current	< Input rated current		
Soft Start	> 3 sec		
Voltage Withstand Test	1500Vac input to chassis for 1 minute		
OUTPUT			
Voltage	Float: 45 ~ 58Vdc (Adjustable), Equalize: 50 ~ 58Vdc (Adjustable), Normal: 54 Vdc		
Current Limit	10 ~ 63 A (Adjustable)	30 ~ 125 A (Adjustable)	
Power (max.)	2700W@48~58Vdc (input > AC185Vac); 1200W@48~60Vdc (input < 185Vac)	6000W@48~58Vdc (input > 186Vac); 3000W@48~58Vdc (input < 187Vac)	6000W@48~58Vdc (input > 322Vac); 3000W@48~58Vdc (input < 323Vac)
Static Regulation	≤ 1%		
Acoustic Noise	< 54dBA	< 58dBA	
Load Sharing	≤ ±5% · with active current sharing from MCSU2048		
Output Protection	Overvoltage shutdown / Blocking diode / Short circuit proof / High temperature		
Voltage Withstand Test	710Vdc output to chassis for 1 minute		
ALARMS			
Visual indications	Alpha-numeric LCD display (only on ES60482 / ES60483) 3 LED Lights: On (Green) / Alarm (Yellow) / Shutdown (Red)		
Rectifier Alarms	Low/High output voltage / Over voltage shutdown alarm / Fan alarm Current limit alarm / Temperature alarm / Rectifier failure alarm		
REMOTE CONTROLS			
Rectifier Inhibit	Rectifier can be inhibited by a signal from MCSU2048		
Equalize Mode	Equalize Mode can be initiated by a signal from the MCSU2048		
External Voltage Control	Output voltage can be controlled by MCSU2048		
Communication	RS-232, RS-485 (Optional: SNMP, TCP/IP, UDP Protocol)		
ENVIRONMENTAL			
Cooling	Fan cooled, speed controlled and alarmed		
Temperature	Operating range : -10°C ~ 70°C derated power at 50°C ~ 70°C		
Humidity	0- 95% R.H. non-condensing		
MECHANICAL			
Dimensions (H×W×D)	41(H)×144(W)×338(D) mm (≅ 1.6×5.7×13.3 inch)	132(H)×144(W)×390(D) mm (≅ 5.2×5.7×15.4 inch)	
Weight	2.1kg (≅ 4.6 lb)	6.7Kg (≅ 14.8lb)	
STANDARDS			
Safety	UL60950-1		
EMC	Emission: EN 61000-6-3; EN 61000-3-2; EN 61000-3-3. Immunity: EN 61000-6-1; EN 61000-6-2.		

*Specifications are subject to change without prior notice.



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