Datasheet Series ERI



Model	ERI3612		ERI Immy Recycling Last 00000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Order no.	24-001-000-01	l	
Max. input voltage Vmax			120 V
Max. load current lmax			110 A
Continuous power			3600 W
Short-time power			3600 W
Voltage setting		0 120 V	
Current setting		0 110 A	
Resistance setting		0.02727 Ohm 11.730 Ohm	
Power setting		0 3600 W	
Rise and fall time fast / medium / slow 1)		800 / 3000 / 10000 μs	
Input capacity ca.		350.000 μF	
Min. input voltage Vmin ²⁾			3 V
Mains ³⁾			1/N/PE AC 230 V 50 Hz
Power consumption ⁴⁾			260 VA
Max. feed-in power			3350 VA
Max. efficiency			90 %
Mains-side circuit breaker			C16
Max. noise ⁵⁾			55 dB(A)
Load terminals (rear) ⁶⁾		FKS20/5-SM8	
Weight ca.		21 kg	
Housing ⁷⁾			19" - 3 HU

- 1. Rise and fall times are defined of 10 ... 90 % and 90 ... 10 % of the maximum current at 10 % of the maximum input voltage (current mode, tolerance ±20 %). Times will vary at different settings.
- 2. Minimum input voltage for maximum current
- 3. 1-phase at 3.6 kW, 2-phase at 7.2 kW, 3-phase at 10.8 kW Mains tolerance: -15 ... 10 % Cross-section of mains wires: 2.5 ... 4 mm2
- 4. Power consumption in idle operation (without load current)
- 5. Measured at the front in distance of 1 \mbox{m}
- 6. Flat copper bar 20 x 5 mm vertically installed with screw M8
- 7. Largest width and depth without wiring 1 HU = 44.45 mm

ERI Series

Technical Data

Accuracy of setting					
	of setting	of corresponding range			
Voltage	±0.2 %	±0.05 %			
Current	±0.2 %	±0.05 %			
Resistance (at 5 % to 100 % of voltage range)	±1.4 %	±0.3 % of current range			
Power (at V and I > 30 % of range)	±0.35 %	±0.1 %			
(at V or I < 30 % of range)	±0.7 %	±0.25 %			
Resolution	14 bits				
Accuracy of adjustable	protections				
	of setting	of corresponding range			
Overcurrent protection	±1.4 %	±0.3 %			
Undervoltage protection	±1.4 %	±0.3 %			
Resolution	12 bits				
Accuracy of measuren	Accuracy of measurement/display in the static operating modes CC, CR, CV				
	of measured value (real value)	of corresponding range			
Voltage	±0.03 %	±0.02 %			
Current	±0.2 %	±0.05 %			
Resistance	is calculated from current a	nd voltage			
Power	is calculated from current and voltage				
Resolution	18 bits				
Sampling rate	330 ms, not triggerable				
Accuracy of measuren	nent/display in the static CP mo	de and all dynamic modes			
	of measured value (real value)	of corresponding range			
Voltage	±0.2 %	±0.1 %			
Current	±0.2 %	±0.1 %			
Resistance	is calculated from current a	nd voltage			
Power	is calculated from current a	nd voltage			
Resolution	12 bits				
Sampling rate	200 µs 800,000 s				
Accuracy of trigger vo	ltage measurement				
Voltage	±1 % of range				
Sampling rate	200 μs				
Dynamic function (LIS	T)				
No. of load levels	max. 300, with corresponding ramp and dwell times				
	min.	max.			
Dwell time	200 μs	800,000 s			
Ramp time	0 s	800,000 s			
Resolution	200 μs				
Accuracy of setting times	±0.02 %				
Delay at triggered start	max. 300 µs				

0.5 s, 1 s, 5 s, 10 s		
timestamp, voltge, current		
limited by flash drive memory capacity		
.CSV		
200 μs 800,000 s, resolution 200 μs, synchronized with dynamic function		
timestamp, voltge, current		
max. 8,000		
2, selectable (incl. programmed list) 1 for last device settings at power-off or power failure		
!		
esponding range		
)		
,		
>10 kΩ		
oltage		
V		
V		
<u>·</u>		
input state (on/off) overload (OV, OCP, OPP, OTP) trigger output programmable output (by SCPI command)		
30 V		
input state (on/off) mode selection trigger input readable input (by SCPI command) control input (activates the I/O port) remote shut-down		
3 30 V diode function at reverse polarity up to nominal current		
peration (hardware-con-		
Imax Vmin V		
/		

The specified accuracies refer to an ambient temperature of 23 ± 5 °C. The specified accuracies are valid when the unit is connected to undisturbed voltages (ripple and noise < 0.1 %). At voltages with higher disturbance values the accuracy can change for the worse. 11 positive/negative DC voltage or RMS value of a sinusoidal AC voltage

Technical Data (continued)

Input: permissible potentials			
	isolated I/O port (option ERIO6)		
neg. load input - PE	max. 500 V ¹⁾		
pos. load input - PE	max. 800 V ¹⁾		
Power			
Continuous power	see model overview (at Ta = 21 °C)		
Derating	-1,6 %/°C for Ta > 21 °C		
Efficiency	see model overview		
Protection and monitoring	ng		
Protective devices	overcurrent overpower overtemperature		
Monitoring signals	overvoltage indication undervoltage indication (if the inpupt voltage is too low for the set current) reverse voltage indication		
Terminals			
Load input	see model overview		
Sense	PH2/7.62-BU16, see starting at page 101		
Operating conditions			
Operating tempe- rature	5 40 °C		
Stock temperature	-25 65 °C		
Operating height max.	2.000 m above sea level		
Pollution degree	2		
Max. humidity	80 % at 31 °C, linear decreasing to 50 % at 40 °C		
Min. distance rear panel - wall or other objects	70 cm		
Cooling	temperature-controlled air cooling		
Noise	see model overview		
Mains voltage	see model overview		
Power consumption	see model overview		

Mechanics			
Dimensions	see model overview		
Weight	see model overview		
Color Front Rear Top, side panels	RAL7035 (light grey) Stainless steel RAL7037 (dusty grey)		
Safety and EMC			
Protection class	1		
Protection	IP20		
Measuring category	O (CAT I according to EN 61010:2004)		
Electrical safety	DIN EN 61010-1 DIN EN 61010-2-030		
EMC	DIN EN 61326-1 DIN EN 55011 DIN EN 61000-3-2 DIN EN 61000-3-3		
Available options			
Data interface ERI02	GPIB Interface		
Hardware extension ERI06	Galvanically isolated I/O port		
Kalibrierung, Gewährleistung			
FCC-ERIxx	Factory Calibration Certificate, twice free of charge		
Warranty	2 years		