

Zenone Elettronica

AL3000R Series Cycler / Batteries simulator



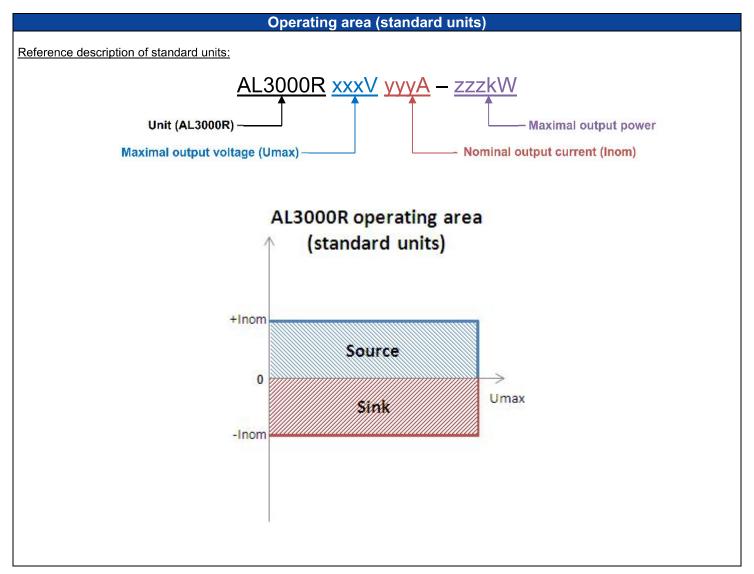
- Regulation and control of power through a 32bit DSP.
- Modular architecture for a large configuration flexibility (5 to 1000 V, 5 to 5000A) and up over 500kW.
- Works in supply and load power input is fed back to the mains.
- Parallel up to 4 power supplies and ability to have multiple outlets in the same cabinet.
- •Excellent performance including feedback entered through a floor specially designed to combine performance, robustness and low pollution.
- · Access to the control law (PID settings).
- 2 analog inputs to regulate in voltage, current, power and control the simulation of internal resistance.
- Specifically designed for cycling and simulation batteries.

AL3000R.





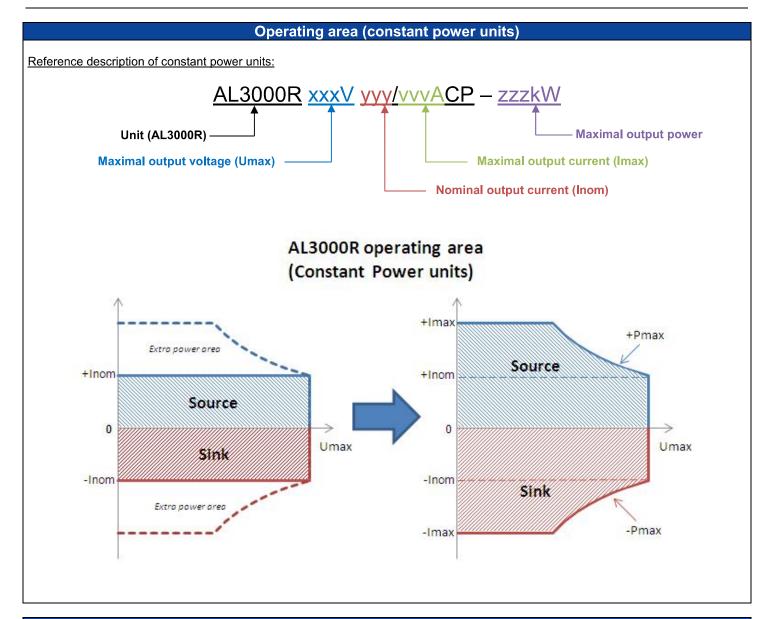
Input specifications									
Nominal input voltage:	400V L-L 3W + 0	400V L-L 3W + GND							
Voltage tolerance:	+/- 15%								
Line frequency:	45-60Hz								
Input current:	Max power	5kW	10kW	15kW	20kW	25kW	30kW		
	I (AL3000R)	10A	20A	30A	40A	51A	61A		
	Max power	40kW	50kW	60kW	80kW	100kW	120kW		
	I (AL3000R)	81A	102A	122A	163A	204A	244A		
	Max power	160kW	200kW	250kW	300kW	400kW	500kW		
	I (AL3000R)	326A	408A	510A	612A	816A	1020A		
	Intermediate configu	Intermediate configurations are available.							
Line connection:	Internal clamps	Internal clamps							
Power factor:	>0.95		•		•	•			



AL3000R.

Cycler / Batteries simulator





Output specifications (valid for both standard and constant power units)				
Output voltage configurations:	0-5 to 0-1000V; configurations up to 1400V are available with extra specifications			
Output current configurations:	0-22A to 0-5000A			
Operating modes:	Voltage source, Current source, Power source.			
Voltage accuracy:	0.2% of F.S.			
Current accuracy:	0.2% of F.S.			
Line regulation:	0.1% of F.S.			
Load regulation:	0.2% of F.S.			
Linearity:	0.2% of F.S.			
Max offset:	0.2%			
Max ripple:	0.2% of F.S.			
Transient response time:	200μs typ. for a 50% load variation			
Maximal compensated voltage:	Umax /10 (i.e. for a 400V unit, the maximal voltage drop compensated by the sense line is 40V)			
Simulated output resistance	Range = 0 to 1000Ω ; resolution = $1m\Omega$			

AL3000R.





Interfaces				
	Voltage control though a 10 turns potentiometer Current control though a 10 turns potentiometer 3.5 digit digital voltage display			
Front panel:	3.5 digit digital current display Emergency stop switch Line main circuit breaker			
Communication interface:	RS-485			
Digital inputs / outputs and safety interlock:	1x Normally opened no voltage contact for remote Run/Stop 1x PNP digital output signalling the output status (ON/OFF) 1x PNP digital output for alarm/fault signal.			
	1x Normally closed no voltage contact for safety interlock. Opening this contact disengage the MCB in order to disconnect the equipment from the mains (Emergency switch) 2x 0-10V analog inputs.			
Analog inputs	Analog inputs can be assigned to control U, I, P or the simulated resistance. Additional analog inputs can be installed, please consult your sales engineer for more information.			
Built-in measurements:	16 bits Voltage measurement 16 bits Current measurement			

Physical info							
	Dimensions (W x D x H mm - approx.):						
Dimensions and weight:	Up to 15kW: 600x600x120	0	Up to 100kW:	1000x800x1800			
	Up to 30kW: 600x600x180	0	>100kW	Please consult.			
	Up to 60kW: 800x800x180	0					
	Dimensions above are given for reference only, cabinets sizes can vary according to the AL3000R maximal current, voltage and power.						
Temperature:	Operating: 5 to 40°C; storage: -5	to 60°C.					

For more information, contact us

info@a-powergroup.com



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