



Standard
Vented Case



Standard and industrial models
Fully regulated, protected and isolated
12 & 24V models available
Ultra low (negligible) rf noise
Terminal blocks for all connections (industrial model)
Based on solid engineering design
Optional 19" x 3U rack mount enclosure
Safety to IEC950 (EN60950), AS3260:1993
All units exceed EMC standards

The SAL Linear power supply range has built a history of solid performance within a multitude of applications. Industrial units are supplied on a *gear plate*, standard units are supplied with mounting feet for easy incorporation into new or existing installations.

For those applications that require monitoring, optional alarm contacts are available to suit your needs.

↓ # 24 Month Warranty

SPECIFICATIONS All specifications are typical at nominal input, full load and at 25°C unless otherwise stated.

ELECTRICAL

AC Input	230 / 240 VAC 50Hz ± 5% or 110 / 115 VAC 50 / 60Hz ± 5% or 400 / 415 VAC ± 5%
Frequency	Refer to AC input (above)
Fusing / Protection	Panel mount external fuseholder at rear (standard 5 x 20 mm glass fuse)
Isolation	3.5KV AC RMS 1 min. input / output 1.5KV AC RMS 1 min. input / output / gnd.
Output Power	Refer model table (70 - 850W)
Output Voltages	13.8, 24V
Voltage adj. range	Adjustable over small range. Contact office for procedure and advice
Current Limit	Foldback limiting at 120% rated load
Line Regulation	< 0.2% over input range
Load Regulation	< 0.5% open circuit to full load
Ripple	< 0.2% Peak - Peak, <0.05% RMS
Transient Response	< 20 µSec

PHYSICAL

AC Input connections	Standard: Mains cordset, 1.5m long with standard AU 3 pin plug Industrial: Screw / clamp terminal block, with wire protection and safety insulating cover
DC Connections	Standard: Screw / clamp wire block Industrial: Refer model table
Enclosure	Standard: Steel, vented case Industrial: Mild steel gear plate chassis, vented case
Finish	Standard: Charcoal powdercoat Industrial: Gold passivated zinc plate
Indicators	Power on, neon indicator in switch (standard)
Weight	Refer model table
Mounting	Standard: Benchtop mounting, or to wall / panel, optional rack mt.

ENVIRONMENTAL

Operating temperature	0 - 50° C ambient at full load max. 60° C @ 50% load
Storage temperature	-10 to 70° C
Temperature rise	50° C above ambient at full load
Cooling	Natural convection

STANDARDS

EMC	All units exceed EN55022-A
Safety	To IEC950 (EN60950), AS/NZS3260:1993

RACK MOUNTING OPTION



INDUSTRIAL POWER SUPPLY (GEAR PLATE)



STANDARD PREFERRED MODEL TABLE

INDUSTRIAL (gear plate)	DC Output *				Physical		
	Nominal Voltage	Output Voltage	Power (W)	Current	Case Type	DC Connector	Weight (kg)
SAL-12/20	12V	13.8V	276	20A			10
SAL-24/03GP	24V	24V	72	3A	G2	B	3.6
SAL-24/05GP	24V	24V	120	5A	G3	C	6.4
SAL-24/10GP	24V	24V	240	10A	G4	C	8.6
SAL-24/20GP	24V	24V	480	20A	G5	D	18.5
SAL-24/30GP	24V	24V	720	30A	G6	D	28

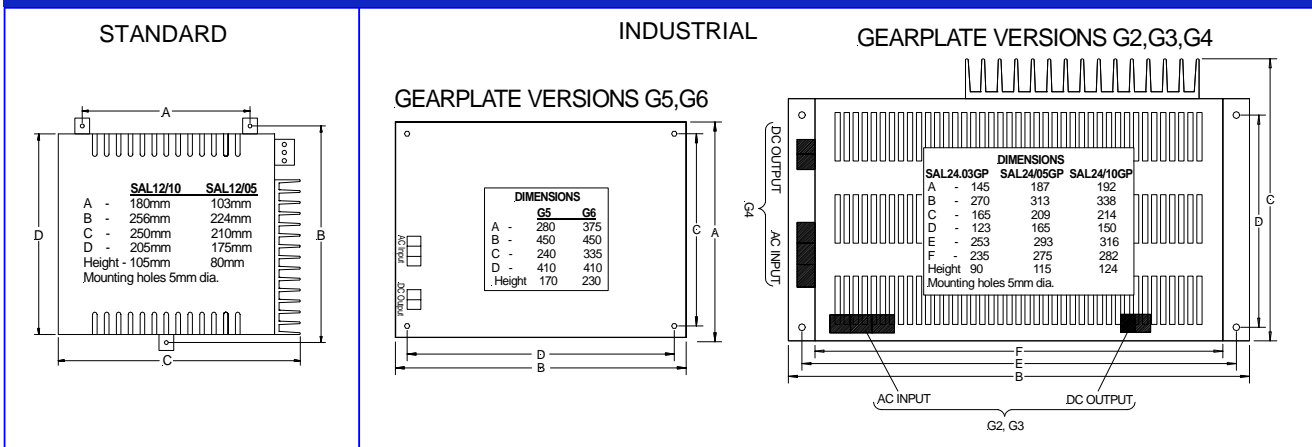
STANDARD (vented case)	DC Output				Physical
	Nominal Voltage	Output Voltage	Power (W)	Current	Weight
SAL-12/05	12V	13.8V	69	5A	3.6Kg
SAL-12/10	12V	13.8V	138	10A	6.4Kg

DC Connector codes:

A Screw / clamp terminal block on PCB, max. wire 1.5mm²
 B Screw / clamp terminal block, rugged melamine, max. wire 2.5mm²
 C Screw / clamp terminal block, rugged melamine, max. wire 4.0mm²
 D Screw / clamp terminal block, rugged melamine, max. wire 2x 10mm²
 E Threaded brass M6 studs with locknuts

*Other voltages available on request (eg. 415V 50 Hz input, or other DC outputs) .

MOUNTING DETAILS / DIMENSIONS



ADDITIONAL OPTIONS

AC Input	110V AC 50 / 60Hz 400 / 415V AC 2Ø dual fused (Please specify on ordering)
Alarms	Dual: Power Fail / DC Low with relay outputs C-NO-NC 24V/1A rated, (specify option +B12 or +B24). Quad: AC Mains fail / DC Low / DC High / Battery Low with relay outputs. (specify option +Q12 or +Q24) Note: that quad alarm may require larger than standard enclosure for some models.
Metering	Provision for 2x analogue meters if required

ADDITIONAL OPTIONS

Rack Mount	19" x 3U high x 310 deep. Front handles, power switch, rear connections, (change model # from xxGP to xxRM). For some models backup battery can be fitted inside the Rack Mount enclosure with the charger.
Temperature Compensation	Output voltage compensated to suit battery, with probe. Typ -4mV / °C / cell. Specify option: +T12 or +T24
Parallel / Redundancy	Output diode and DC OK by sense of output voltage or alarm contact. Specify option: "+P.."

NON - LINEAR LOADS

Operation with non-linear loads: Some loads, e.g. inductive and incandescent lamps, can appear as a virtual short circuit to the power supply when first applied and this can cause current foldback limiting to operate prematurely, resulting in loss of output voltage. Use of a simple 'NTC' (negative temperature coefficient) resistor will overcome this. Please refer to sales office for advice.