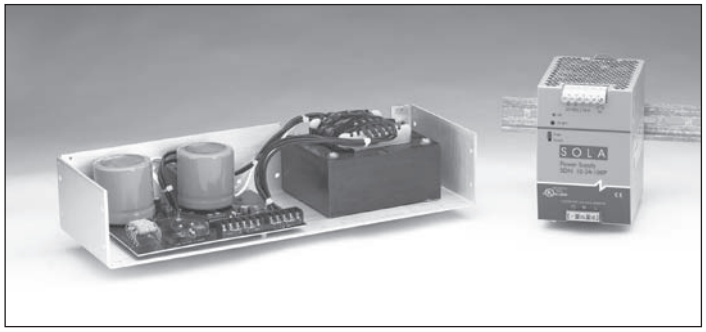
Sola/Hevi-Duty has a broad range of standard power supplies to suit almost any industrial application. Updated approvals and user friendly features make power system design easy. The product line includes one of the broadest ranges of DIN Rail and linear-based power supplies in the marketplace. The DIN Rail products feature full CE compliance (including all the elements of CE design engineers need to worry about: safety/LVD, EMC, and ingress protection). UL 508 approvals eliminate derating in UL 508 listed panel systems. Global inputs are available for installations around the world.

Sola/Hevi-Duty also offers a three phase input option on many of the SDN DIN Rail products that convert 380/480 three phase directly to 24 VDC. They provide extremely stable, regulated low voltage without the need for a step down transformer saving space and money. For the popular SL linear line, Sola/Hevi-Duty leads the market by replacing the time consuming solder connections with screw terminals. Ease-of-use is now combined with the economy and extremely low noise.

Linear vs. Switcher

Sola/Hevi-Duty has provided both linear and switching technology products for many years. As a leading supplier of power products to the industrial market, both technologies are still important. Switching technology (most of Sola's DIN Rail line) is the predominant method of AC-DC conversion for almost any type of electronic system sold today in the world, from PLC's to desktop PC's.



Linear vs. Switcher

Linear Power Supplies for a broad range of applications.

The small size, lightweight and high efficiency of the switching products give them significant advantages over the linear technology products (Sola's SL and 83 series). Sola/Hevi-Duty switching products provide well filtered and regulated DC of typically less than 1% deviation from the nominal output voltage.

Linears are about 50% efficient while their switching counterparts are typically over 80% efficient. Switchers are light enough to mount on a DIN Rail, while only the smallest linears are capable of being securely mounted to a DIN Rail. Linears are still popular today because they do provide very tight regulation (<.01% typically), almost perfectly clean DC, fast transient response and their low component count helps provide a lower material cost for its user. Linears are typically open frame because of the excessive heat dissipation from their low efficiency. Sola/Hevi-Duty's industry standard linears, however, are available with optional covers for safety. Most linears are recognized to UL 60950 and cannot meet the stricter temperature requirements of the UL 508 Listing, such as with Sola/Hevi-Duty's DIN Rail power supplies.

DC Power Supply Selection Process

Power supplies can be selected online by visiting our website. Enter your power requirements and a list of matching power supplies will list. You can also manually select a power supply by following the directions below:

1) Gather the required information.
   - Input voltage and frequency?
   - Wattage needed?
   - Number of outputs?
   - Voltage of each output?
   - Amperage of each output?
   - Don't forget to take into account the peak loading of each output.

2) Calculate the power (wattage) of the DC power supply you need. If more than one output is required, do the following calculation:
   - Multiply the Voltage times the amperage of each output to calculate the wattage of each output. Next, add together the wattage of each output to get the total wattage for the supply.

3) Determine which models from the Power Supply Selection Chart (on the next page) meet all of the required specifications.

4) Download the specifications sheets from our web site (***www.solaheviduty.com***).

5) Check the mounting style, connections and physical size of the power supply to ensure its suitability for the intended application.

6) Check for applicable safety approvals for the country and application the power supply will be used in.

Try our online product selector at **www.solaheviduty.com/psselect.** Enter your power requirements and a list of matching power supplies will list. It's fast and easy.

Selection Worksheet

Input: _____ V _____ Hz

Output:

_____ VDC x _____ Amps = _____ Watts
_____ VDC x _____ Amps = _____ Watts
_____ VDC x _____ Amps = _____ Watts
_____ VDC x _____ Amps = _____ Watts
_____ VDC x _____ Amps = _____ Watts
_____ VDC x _____ Amps = _____ Watts
_____ VDC x _____ Amps = _____ Watts
_____ VDC x _____ Amps = _____ Watts

(Add Watts from each output to calculate)

Total Watts = _____

Physical Dimensions:

_____H x _____W x _____D

Mounting:

_____ DIN Rail
_____ Chassis
_____ Other

Other required features or options:

_____
_____
_____
_____
_____
_____

If you have filled out this form and cannot find the appropriate power supply, please fax (800-367-4384) or e-mail (tech@sola-hevi-duty.com) this information to the Technical Services group.

Power Supply Selection Table

This chart is intended only as a guide for selecting a series of DC power supply, some of the series listed may not work in all applications.

Series	Input Voltage				Output Voltage						Power Range (Total Watts)	Number of Outputs				Notes	Page
	DC	115 VAC	230 VAC	380/480 VAC	3.3 V	5 V	12 V	15 V	24 V	48 V		Single	Dual	Triple	>4		
SDN™	X	X	X	X					X		60 - 960	X				- DIN Rail mount - 3 Phase input available. - Redundant options. - NEC Class 2/DeviceNet™	86
SDP™	X	X	X			X	X	X	X	X	15 - 100	X				- Din Rail mount compact	98
SCP	X	X	X		X	X	X	X	X	X	30	X	X	X		- Din Rail mount/Chassis	103
SCD	X					X	X	X	X	X	30	X	X			- Din Rail mount/Chassis - DC input	105
SCL		X	X			X	X	X			4 - 10	X	X	X		- Din Rail mount/Chassis	101
SFL		X	X				X		X	X	75 - 600	X				- Din Rail mount - Adjustable Pot, Red or UPS option	107
GL OEM Switchers		X	X			X	X	X	X		40 - 200	X	X	X	X	- 40 - 110 Watt, open frame, molex type connections. - 200 Watt, enclosed with connected screw terminals	116
SMP		X	X			X	X	X	X	X	250-1000	X	X	X	X	- Modular design - Screw Terminals (OEM) supply - Configurable Voltage Output	119
SHP		X	X		X	X	X	X	X	X	1500-2000	X	X	X	X		124
Silver Line Linears		X	X			X	X	X	X		15 - 244	X	X	X		- Industry standard footprint. Screw terminals and optional covers.	110

DIN Rail Selection Guide

		Output Voltages									
		48	**24**	**15**	**12**	**10**	**5**	**±15**	**±12**	**5/24**	**5/12/12**
AMPS	**1**	SDP1-48-100T	SDP06-24-100T					SCL4D15-DN	SCL4D12-DN	SCP30D524-DN SCP30S524B-DN	SCL10T512-DN
		SFL1.5-48-100	SDP1-24-100T	SCP30S15-DN	SDP2-12-100T			SCL10D15-DN	SCL10D12-DN		SCP30T512-DN
	2.5		SDN2.5-24-100P SDP2-24-100T		SCP30S12B-DN			SCP30D15-DN	SCP30D12-DN		
	3	SFL3-48-100		SDP3-15-100T		SDP2-12-100T					
	4		SDN4-24-100LP SDP4-24-100LT								
	5	SFL6-48-100	SDN5-24-100P SDN5-24-480 (3Ø)		SFL6-12-100		SDP5-5-100T SCP30S5B-DN				
	7.2										
	10		SDN10-24-100P SDN10-24-480 (3Ø)								
	12	SFL12-48-100	SFL12-24-100								
	20		SDN20-24-100P SDN20-24-480C (3Ø)								
	25		SFL24-24-100								
	30		SDN30-24-480 (3Ø)								
	40		SDN40-24-480 (3Ø)								