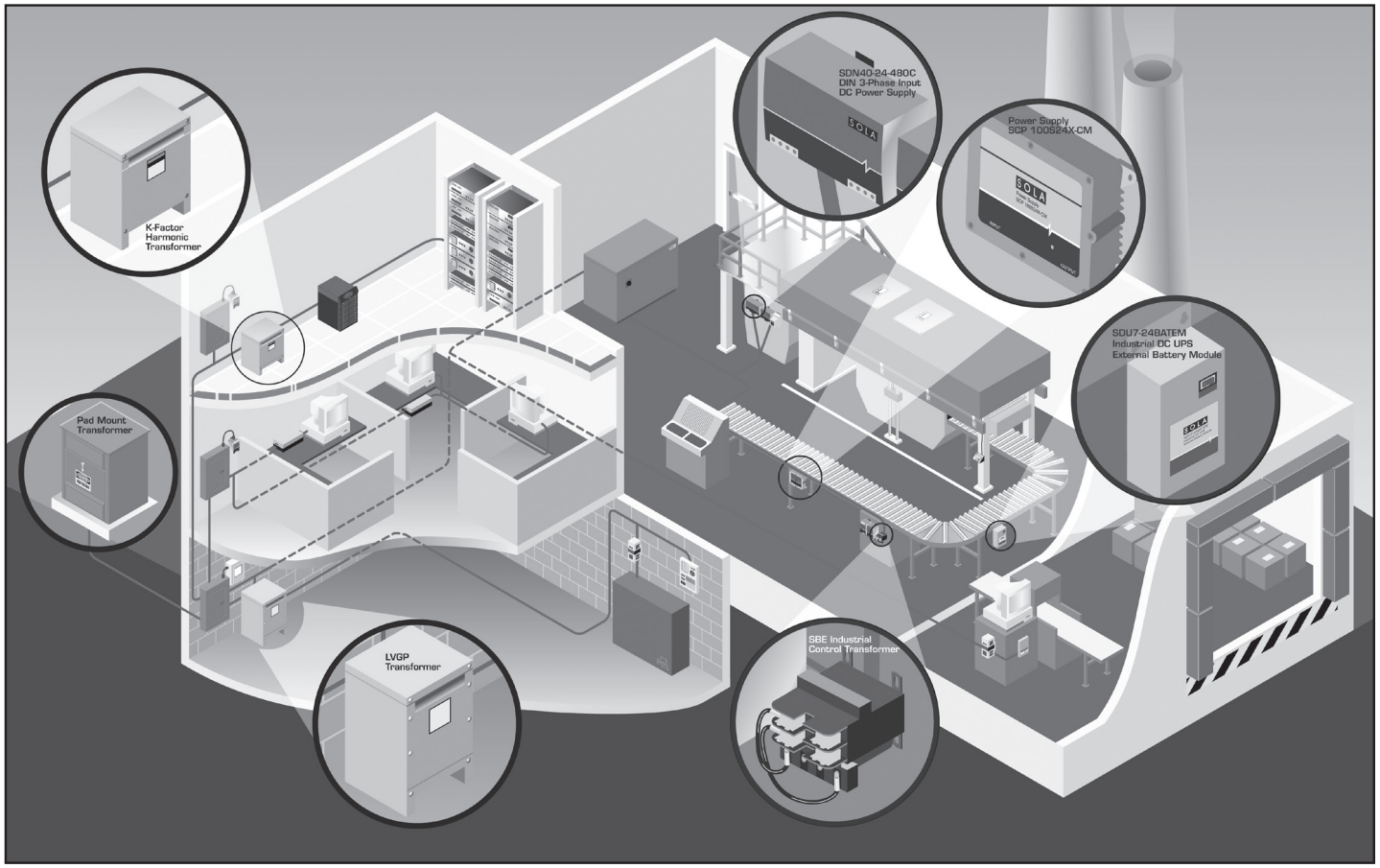

	Solution	UPS	Power Conditioning	K-Factor Transformers	Drive Isolation Transformers	SPDs	Transformers	DC Power Supplies
Blackouts		■	■					
Brownouts		■	■					
Voltage Sags		■	■					
Voltage Swells		■	■	■	■	■	■	■
Voltage Transient		■	■	■	■	■	■	■
Harmonics		■	■	■	■	■	■	■
Electrical Noise		■	■	■	■	■	■	■
AC/AC Conversion		■	■	■	■	■	■	■
AC/DC Conversion		■	■	■	■	■	■	■
DC/DC Conversion		■	■	■	■	■		■

Emerson has a broad range of SolaHD power supplies to suit almost any application. Three tiers of DIN rail power supplies, from high reliability in the harshest of environments, to applications with extremely economical requirements. IP67-rated power supplies, conveniently mounted as a standalone device without an enclosure. Very compact power supplies and DC-to-DC converters for low wattage applications. High capacity modular power supplies for unusual custom application needs. Traditional linear power supplies for applications where modern switching design power supplies are not suitable.

SDN-D: In spite of its small size, the SDN-D high performance DIN rail power supply boasts one of the highest efficiencies available in the market today. Higher efficiency means less heat is generated, potentially extending the life of all components in the enclosure. Extensive diagnostic monitoring capabilities are possible with the optional SCM network communication module, which utilizes popular industrial network protocols to provide critical power supply data to computers, PLCs, DCSs HMIs, and other devices. For applications requiring even higher reliability, combine the SDN-D with SDN redundancy modules. With its extensive capabilities, compact design, and notable global certifications, the SDN-D is the ideal solution for use in harsh environments, extreme temperatures (–40 °C to +70 °C), and hazardous locations worldwide.

SDN-C: Highest performance specifications and extensive international certifications ensure that SDN-C High Performance DIN Rail Power Supplies are suitable for the most extreme environments, including hazardous locations and off-shore applications. Wide operating temperature range and PowerBoost™ capability ensure reliable operation in the harshest industrial environments. Parallel operation, extensive LED diagnostics, and universal AC or DC input voltage simplify installation and maintenance. Available with 12 or 24 Vdc output; currents up to 40 A; with single phase AC, 3-phase AC, or DC input.

SDN-P: Providing industry leading performance at a reasonable cost, the SDN-P Core DIN Rail Power Supplies feature sag immunity, transient suppression, power factor correction, and wide operation temperature range. Available in output currents 2.5 A to 9 A; 12, 24, and 48 Vdc outputs; with 1-phase AC or DC input.

SDP: An extension of the Core Series, the SDP Low Power DIN Rail Power Supplies fill out the mid-range with low power options. The compact, lightweight power supplies come in output voltages from 5 to 48 Vdc and power ratings up to 100 Watts.

SVL: The cost effective SVL Essential DIN Rail Power Supplies are perfect for high volume, controlled environment applications, ranging from 15 to 960 Watts in 5, 12, 24 and 48 Volt combinations.

Power Supply Redundancy Modules: For an additional level of system reliability, our DIN Rail Redundancy Modules are used to support redundant power supply operation. The Redundancy Module continually monitors the condition of two power supplies connected to a single load. If one power supply fails, the Redundancy Module automatically changes over to the other power supply. It also provides important diagnostic information, and helps to balance the load between the two power supplies during normal operation. The Redundancy Modules have extensive international certifications required for harsh industrial environments and hazardous locations. The module works with SolaHD SDN-C, SDN-P, and most other power supplies capable of parallel operation.

SCP-X: No enclosure required! IP67-rated standalone SCP-X Extreme Environment IP67 Power Supplies deliver reliable field power to distributed and remote machine controls. Mounts directly on the machine or production line, eliminating the complexity and cost of unnecessary enclosures and excess wiring. Quick change connectors simplify connectivity to I/O devices. Class II rated, 24 Vdc output in single and dual 100 Watt models. Perfect for automotive, packaging and automated distribution applications.

SCP: The convenience of a very compact design in either DIN rail or chassis mount configuration, the SCP 30 Watt Power Supplies are available with Single, Dual and Triple output configurations.

SCD: Similar to the SCP Series, the very compact SCD 30 Watt DC-DC Converters provide DC to DC conversion in either DIN rail or chassis mounting configuration. Single, Dual and Triple output configurations.

DC Power Supply Selection Worksheet

Power supplies can be selected by following the directions below. 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.
   - Battery Back-up?

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) Reference www.solahd.com for the latest specifications sheets.

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.

Selection Worksheet

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, e-mail this information to the Technical Services group:
solahd.technicalservices@emerson.com

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				Page
	DC	1Ø AC	3Ø AC	3.3 V	5 V	12V	15 V	24 V	48V		Single	Dual	Triple	>4	
SDN–D High Performance, DIN Rail	X							X							122
SDN–C High Performance, DIN Rail	X	X	X			X		X		120 – 960	X				129
SDN–P Core, DIN Rail	X	X				X		X	X	60 – 240	X				137
SDP Low Power, DIN Rail	X	X			X	X	X	X	X	15 – 100	X				142
SVL Essential, DIN Rail	X	X			X	X		X	X	15 – 960	X				145
Redundancy Modules, DIN Rail	X					X	X	X		Up to 1920	X				152
SCP–X Extreme Environment IP67	X	X						X		100, 2 X 100	X				155
SCP 30 Watt Multi–output	X	X		X	X	X	X	X	X	30	X	X	X		158
SCD 30 Watt DC–DC Converter	X				X	X	X	X	X	30	X	X			160
SHP High Power Modular	X	X		X	X	X	X	X	X	36 – 4920	X	X	X	X	162
SL Silver Line Linear		X			X	X	X	X		15 – 244	X	X	X		174

DIN Rail Selection Guide

	Output Voltages										
AMPS	48	24	15	12	10	5	±15	±12	5/24	5/12/12
1	SDP 1–48–100T	SDP 06–24–100T SDP 1–24–100T SVL 1–24–100	SCP 30S15–DN						SCP 30D524–DN SCP30S524B–DN	SCP 30T512–DN
2.5	SVL 2–48–100	SDN 2.5–24–100P SDP 2–24–100T SVL 2–24–100		SDP 2–12–100T SCP 30S12B–DN			SCP 30D15–DN	SCP 30D12–DN		
3			SDP 3–15–100T	SDP 3–15–100T	SDP2–12–100T	SVL 3–5–100				
3.8		SDN 4–24–100LP SDP 4–24–100LT								
4		SDP 4–24–100RT SVL 4–24–100		SVL 4–12–100						
5	SDN 5–48–100P	SVL 5–24–100 SVL 5–24–480 SDN 5–24–100C(X) SDN 5–24–100P SDN 5–24–480C (3Ø)				SDP 5–5–100T				
6						SCP 30S5B–DN SVL 6–5–100				
9				SDN 9–12–100P						
10		SVL 10–24–100 SVL 10–24–480 SDN 10–24–100D SDN 10–24–100C(X) SDN 10–24–100P SDN 10–24–480C (3Ø)								
16				SDN 16–12–100C						
20		SVL 20–24–100 SVL 20–24–480 SDN 20–24–100D SDN 20–24–100C(X) SDN 20–24–480CD (3Ø)								
40		SVL 40–24–480 SDN 40–24–100C SDN 40–24–480C (3Ø)								

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