# APC Symmetra Rack-Mount (2 – 12 KVa)



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# Symmetra Rack-mount 2-12 kVA

# Bringing Symmetra's proven reliability, availability and ease of use to the rack.

APC is bringing all of the time-tested advantages of Symmetra to the rack. With more servers, storage products, networking and telecom equipment becoming rack-based, the need is increasing for innovative rack-mounted power solutions. Symmetra RM meets this need with innovative rack-optimized solutions that range from 2 kVA to 12 kVA, with N+1 redundancy in just 8U or 15U of rack space. A 16kVA N solution is also available in just 15U of rack space.

Symmetra RM is an ideal solution for small to medium size datacenters, branch office locations, mission-critical networking equipment or any other customer requiring a rack based product within this power range. The 2-6 kVA N+1 units provide a 8U rack optimized solution for a typical single rack scenario. On the other hand, the 8-12 kVA N+1 (or 16kVA N only) units provide a 15U rack optimized solution for either multiple racks of equipment or single racks with high density enterprise level equipment. In addition to the advantages of hot-swappability and redundancy, rack users can also benefit from Symmetra's self diagnosing, scalable components and integrated Web/SNMP management features.

With APC Symmetra RM, you'll get all the benefits of Symmetra plus:

#### **Rackmountability:**

Saves premium datacenter floor and U space, while providing a secure environment.

#### Flexible built-in runtime options:

The Symmetra RM 2-6 kVA N+1 units allow Battery Modules to be placed in vacant Power Module bays to increase runtime without using more rack space.

#### **Flexible Extended Runtime options:**

All Symmetra RM units (2-12 kVA, N+1) are compatible with both rackmount and tower extended run options. The Symmetra RM Extended Run solution allows customers to grow runtime in increments of 4 Battery Modules in 4U of rack space. This solution affords the same level of intelligence that all Symmetra extended runtime solutions provide. Various extender cables are available to customize the solution. See page 15.

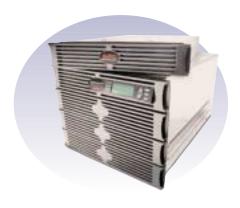
#### Plug and Play Capability:

All Symmetra RM units come standard with field replaceable PDU's. A variety of backplate PDU (listed on Page 19) and external PDU options (both from APC or third party vendors) allow direct plug-in of a wide variety of loads.

### Form Factor Flexibility :

The Symmetra RM 2-6 kVA units and Symmetra RM Extended Run solutions are designed to blend with your IT environment. By using the Optional Floormount Kit (part # SYOPT1) with included castors, the unit can be converted to a freestanding, movable unit, allowing flexibility as your needs change.





#### Symmetra RM 5kVA Step-down Transformer (Part #SYTF2)

The Step-down Transformer converts 208 VAC output into 120 VAC output for powering computer loads in North and South America. It also acts as a Rackmount PDU solution by providing 12 NEMA 5-15/5-20 receptacles. One SYTF2 can be placed in each rack with 120V equipment, being protected by Symmetra RM units. The Step-down Transformer (SYTF2) is color-matched to the new Symmetra Rack-mount. The Step-down Transformer can be purchased as a bundle with the Symmetra RM by ordering -P1 or -P2 part numbers. It can also be purchased separately by ordering SYTF2. A 15-foot line cord is also available for the SYTF2 by by ordering SYOPT9.

# **Symmetra Rack-mount Accessories and Option Kits**

# **Extended Run Options**

| Voltage (in) | Product Information   | Part No:   |
|--------------|---|------------|
| 208 or 240   | RM Extended Run cabinet, holds up to (4) SYBT2 Battery Modules        | SYRMXR4    |
|              | RM Extended Run cabinet, pre-populated with (2) SYBT2 Battery Modules | SYRMXR2B4  |
|              | RM Extended Run cabinet, pre-populated with (4) SYBT2 Battery Modules | SYRMXR4B4  |
|              | Battery Module for 2-6kVA RM models                                   | SYBT2      |
|              | Battery Module for 8-12kVA RM models                                  | SYBT3      |
|              | 15ft Extender Cable from RM models to SYXR4-BM or SYXR12-BM           | SYOPT3     |
|              | 4ft Extender Cable from RM Models to SYRMXR4                          | SYOPT4     |
| 220/230/240  | RM Extended Run cabinet, holds up to (4) SYBT2 Battery Modules        | SYRMXR4I   |
|              | RM Extended Run cabinet, pre-populated with (2) SYBT2 Battery Modules | SYRMXR2B4I |
|              | RM Extended Run cabinet, pre-populated with (4) SYBT2 Battery Modules | SYRMXR4B4I |
|              | Battery Module for 2-6kVA RM models                                   | SYBT2      |
|              | Battery Module for 8-12kVA RM models                                  | SYBT3      |
|              | 15ft Extender Cable from RM models to SYXR4I-BM or SYXR12I-BM         | SY0PT3I    |
|              | 4ft Extender Cable from RM Models to SYRMXR4I                         | SYOPT4I    |
| 200          | RM Extended Run cabinet, holds up to (4) SYBT2 Battery Modules        | SYRMXR4J   |
|              | RM Extended Run cabinet, pre-populated with (2) SYBT2 Battery Modules | SYRMXR2B4J |
|              | RM Extended Run cabinet, pre-populated with (4) SYBT2 Battery Modules | SYRMXR4B4J |
|              | Battery Module for 2-6kVA RM models (Japan only)                      | SYBT2FR    |



| 4-Bay Cabinet Specifications:   |
|---|
| Dimensions:<br>19.3x24x27" (49x61x69cm)                                   |
| Weights: (fully configured)<br>Net: 324lb/147.3kg Shipping: 384lb/174.5kg |

# **Mounting Options**

| Product Information   | Part No: |
|---|----------|
| Floor Mount Kit for 8U rack-mount models (includes caster kit - SYOPT11)                                    | SYOPT1   |
| 4U Extension for SYOPT1 for RM Extended Run Frame   | SYOPT2   |
| 2U Extension of SYOPT1 for SYTF2  | SYOPT10  |
| Caster Kit for 2-6kVA models  | SYOPT11  |
| 2-Post rack-mounting Kit for Symmetra RM 2-6kVA or 4U RM XR frame (see SYOPT8 for "-P1" models)             | SYOPT6   |
| 2-Post rack-mounting Kit for Symmetra RM Step-down Transformer (SYTF2 or SYTF2J)                            | SYOPT7   |
| 2-Post rack-mounting Kit for Symmetra RM 2-6kVA (208V/120V output models only. Bundle of SYOPT6 and SYOPT7) | SYOPT8   |



Symmetra RM 2-6kVA shown with Floor-mount Kit (SYOPT1).

# **Backplate and Power Distribution Unit (PDU) Options**

| Voltage (in) | Product Information  | Part No: |
|--------------|--|----------|
| 208 or 240 V | Backplate with (8) IEC 320 C13 & (2) IEC 320 C19 receptacles and jumper cables (use 1 for 2-6kVA models and up to 3 with 8-12kVA models) | SYPD5    |
|              | Output Hardwiring Kit for 2-6kVA models  | SYPD6    |
|              | Backplate with (3) L6-20R (use 1 for 2-6kVA models and up to 3 with 8-12kVA models)  | SYPD7    |
| 220/230/240V | Output Hardwiring Kit for 2-6kVA models  | SYPD9    |

# **Other Accessories**

| Voltage (in) | Product Information             | Part No: |
|--------------|---------------------------------|----------|
| 208 or 240 V | Step-down transformer           | SYTF2    |
|              | 15 ft Input line cord for SYTF2 | SYOPT9   |
| 200 V        | Step-down transformer           | SYTF2J   |

Regional availability: Middle East; Asia; Africa; Australia; South America

| Symmetra Rack-mount                  | •                       | 208 VAC (Output  | )              | 12                                       | 20; 208 VAC (Outp         | uut)                          |                                  | 230; 240 VAC (Ou  |               |
|--------------------------------------|-------------------------|--|----------------|--|---------------------------|-------------------------------|----------------------------------|-------------------|---------------|
| System Part No.                      |                         | SYH2K6RMT SYH4K6RMT SYH6K6RMT SYH2K6RMT-P1 SYH4K6RMT-P1 SYH6K6RMT-P1 |                |  |                           | SYH2K6RMI SYH4K6RMI SYH6K6RMI |                                  |                   |               |
| 200/100V System Part No.*            | SYH2K6RMJ               | SYH4K6RMJ  | SYH6K6RMJ      |  |                           | SYH6K6RMJ-P1                  | OTTIZIONIVII                     | OTTIFICOTIVII     | OTTIONOTHVII  |
| Output                               | STITZKOTIVIS            | 3111410111110  | STHOKOHIVIO    | 31112KUIIIVI3-1 1                        | 31114KUIIIVIO-1 1         | 3111010111113-1 1             |                                  |                   |               |
| Capacity                             | 2kVA/1.4kW              | 4kVA/2.8kW   | 6kVA/4.2kW     | 2kVA/1.4kW                               | 4kVA/2.8kW                | 6kVA/4.2kW                    | 2kVA/1.4kW                       | 4kVA/2.8kW        | 6kVA/4.2kW    |
| Output Voltage                       | 208 (240 configurable)  |  | 120; 208       |  | 220; 230; 240             |                               |                                  |                   |               |
| Max Configurable Power               |                         |  |                |  |                           |                               |                                  |                   |               |
| with additional Power Modules*       | (0) NIENA               | 6kVA/4.2kW   | MA 10 00D      | 6kVA/4.2kW (max 5kVA of 120VAC)*         |                           |                               | 6kVA/4.2kW                       |                   |               |
| Output Connections                   | (2) NEM                 | A L6-20R, (1) NEI  | MA L6-30R      | (2) NEMA L6-20R, (12) NEMA 5-20R**       |                           |                               | (8) IEC 320 C13; (2) IEC 320 C19 |                   |               |
| Efficiency at full load              |                         | 89%  |                | 85% Internal Bypass (Automatic & Manual) |                           |                               | 89%                              |                   |               |
| By pass                              |                         |  |                |  |                           | · ·                           |                                  |                   |               |
| Output voltage Distortion            |                         |  |                |  | / <5% at full load        | (linear or non-line           |                                  |                   |               |
| Output frequency (synched to mains)  |                         |  |                | 57-63 Hz*                                |                           |                               | 47-53 Hz                         |                   |               |
| Output frequency (not synched)       |                         |  |                | 60 Hz*                                   |                           |                               | 50 Hz                            |                   |               |
| Crest Factor                         |                         |  |                |  | up to 5:1                 |                               |                                  |                   |               |
| Input                                |                         |  |                |  |                           |                               |                                  |                   |               |
| Nominal input Voltage                | 208 or                  | 240 (200 for "J" ı   | models)        |  | 208                       |                               |                                  | 220; 230 ; 240    |               |
| Input Frequency                      |                         |  |                |  | lz +/- 5 Hz (auto-s       | sensing)                      |                                  |                   |               |
| Input Connection                     |                         |  |                | NEMA L6-30P                              |                           |                               |                                  | Hardwire (3-wire  | 9)            |
| Input Voltage range                  |                         |  |                | 15                                       | 5-276 V at 100% I         | oad                           |                                  |                   |               |
| Input Power Factor at full load      |                         |  |                |  | 0.98                      |                               |                                  |                   |               |
| Battery Type                         |                         |  | Mainto         | nanco-froo soalo                         | d lead-acid hatte         | ery with suspende             | d electrolyte: le                | aknroof           |               |
| Typical recharge time                |                         |  | Widilito       | nunce nee, seule                         | 4 hours                   | ory with suspende             | a cicca diyic, ic                | акргоот.          |               |
| Replacement Battery Module*          | (1) SYBT2               | (2) SYBT2  | (3) SYBT2      | (1) SYBT2                                | (2) SYBT2                 | (3) SYBT2                     | (1) SYBT2                        | (2) SYBT2         | (3) SYBT2     |
| neplacement battery woulde           | (1) 31 11 12            | (2/ 31012  | (3) 31112      | (1) 31012                                | (2) 31012                 | (3) 31112                     | (1) 31 11 12                     | (2) 31012         | (0) 31112     |
| Interface port                       |                         |  |                | DB-9; R                                  | S-232; Smart-Slo          | t Card (2)                    |                                  |                   |               |
| Management Software included         |                         |  | PowerChute N   | etwork Shutdown                          | ; Web/SNMP Ma             | nagement Card s               | hips standard w                  | ith each unit     |               |
| Control panel                        |                         |  | Multi          | -function LCD star                       | tus & control cor         | nsole in multiple la          | inguages                         |                   |               |
| Audible Alarm                        |                         |  | Alarm v        | when on-battery;                         | distinctive low ba        | attery alarm; confi           | gurable delays                   |                   |               |
| Emergency Power Off (EPO)            |                         |  |                |  | Yes                       |                               |                                  |                   |               |
|                                      |                         |  |                |  |                           |                               |                                  |                   |               |
| Power Module Bays (total/filled)     | 4/1                     | 4/2  | 4/3            | 4/1                                      | 4/2                       | 4/3                           | 4/1                              | 4/2               | 4/3           |
| Battery Module Bays (total/filled)   | 3/1                     | 3/2  | 3/3            | 3/1                                      | 3/2                       | 3/3                           | 3/1                              | 3/2               | 3/3           |
| Dimensions HxWxD*** (in/cm)          | 8U/14x19                | 9x27.25in /35.6x48.  | 3x69.2cm       | 10U/17.5                                 | 5x19x27.25in/44.5         | x48.3x69.2cm                  | 8U/14x1                          | 9x27.25in/35.6x48 | 3.3x69.2cm    |
| Weight net (lbs/kg)                  | 164lb/74.5kg            | 229lb/104.1kg  | 294lbs/133.6kg | 259lb/118kg                              | 324lb/155kg               | 389lb/177kg                   | 164lb/74.5kg                     | 229lb/104.1kg     | 294lbs/133.6k |
| Weight shipping                      | 185lb/84.1kg            | 256lb/116.4kg  | 327lb/148kg    | 295lb/134kg                              | 366lb/166kg               | 437lb/199kg                   | 185lb/84.1kg                     | 256lb/116.4kg     | 327lb/148kg   |
| Operating Temperature                |                         |  |                |  | 0.40.0/22.104.5           |                               |                                  |                   |               |
| Operating Relative humidity          |                         |  |                |  | 0-40 C/ 32-104 F<br>0-95% |                               |                                  |                   |               |
| Operating Elevation                  |                         |  |                | 0  |                           | 0                             |                                  |                   |               |
| Storage Temperature                  |                         |  |                |  | 10000 feet/ 0-300         |                               |                                  |                   |               |
|                                      | -15 to 45C/ 5 to 113F   |  |                |  |                           |                               |                                  |                   |               |
| Storage Relative Humidity            | 0-95%                   |  |                |  |                           |                               |                                  |                   |               |
| Storage Elevation                    | 0-50,000 feet/0-15,000m |  |                |  |                           |                               |                                  |                   |               |
| Audible noise at 3 feet (1 m)        |                         |  |                |  | 60dBA                     |                               | 1                                |                   | T             |
| On-line thermal dissipation (BTU/hr) | 590                     | 1181   | 1771           | 843                                      | 1686                      | 2529                          | 590                              | 1181              | 2529          |
| Approvals                            |                         |  | ſ              | CSA; FCC A; UL 17                        | 78                        |                               | C-1                              | tick; EN 50091-2; | VDE           |
|                                      |                         |  |                | , ,                                      |                           |                               |                                  | , 2.1. 30001 2,   |               |
| Warranty                             |                         |  | 2 years        | , repair or replace                      | e (1 year for batte       | ery modules in Ind            | lia)                             |                   |               |
| "T" level for Service Option pricing | T6                      | T6   | T6             | T6                                       | T6                        | ,<br>T6                       | T8                               | T8                | T8            |

<sup>\*</sup> These units are for our Japanese customers whose input voltage is 200Volts. The following specifications supercede the above, unless otherwise noted all other specifications remain the same. Max Configurable Power: 3.5kVA of 100VAC for -P1 units; Output frequency (synch'd to mains): 57-63Hz or 47-53Hz; Output frequency (not synch'd to mains): 60 or 50Hz; Replacement Battery Module: SYBT2FR.

<sup>\*\*</sup>Also referred to as 5-20RA (Canada) or T-Slot, and can be used as both 5-15R or 5-20R.

<sup>\*\*\*</sup>Depth is measured from the front rail to the rear of the unit.

# Symmetra™ Rack-mount Product Specifications

Regional availability: North America; South America

| Symmetra Rack-mount                  | 208 VAC                                   | (Output)                             |                        | 120; 208 VAC (Output   |                            | 220- 220-                            | 240 VAC (Output) |
|--------------------------------------|---|--------------------------------------|------------------------|--|----------------------------|--------------------------------------|------------------|
| System Part No.                      | SYP8K12RMT                                | SYP12K12RMT                          | SYP8K12RMT-P1          | SYP12K12RMT-P1   | SYP12K12RMT-P2             | SYP8K12RMI                           | SYP12K12RM       |
| Output                               | OTT OKTERIWIT                             | OTT TERTETION                        | OTT OKTZIWIT T         | OTT TERTETION TO   | 011 12K12HW11 12           | OTT OKTZINII                         | OTT TERTETUVI    |
| Capacity                             | 8kVA/5.6kW                                | 12kVA/8.4kW                          | 8kVA/5.6kW             | 12kVA/8.4kW  | 12kVA/8.4kW                | 8kVA/5.6kW                           | 12kVA/8.4kW      |
| Family                               | ,   | ,                                    | <u> </u>               | netra RM   | 12                         |                                      | 12111111         |
| Output Voltage                       | 208 (240 co                               | nfigurable)                          |                        | 120/208V   | 220.2                      | 30,240V                              |                  |
| Max Configurable Power with          |   | g,                                   |                        | 124,200  |                            |                                      |                  |
| additional Power Modules             | 12kVA/8.4kW (N+1), 16kVA/11.2 kW (N only) |                                      |                        |  |                            |                                      |                  |
| Output Connections                   | (6) NEMA<br>(3) NEMA L                    | A L6-20R,<br>6-30R, Hardwiring       |                        | 6) NEMA L6-20R, (2) NEMA L6-30R,<br>12 NEMA 5-20R*, Hardwiring (1) NEMA L6-30R, 24<br>NEMA 5-20R*,<br>Hardwiring |                            | (24) IEC 320 C13;<br>(6) IEC 320 C19 |                  |
| Efficiency at full load              | 91  | %                                    |                        | 87%  |                            | 91%                                  |                  |
| By pass                              |   | Internal Bypass (Automatic & Manual) |                        |  |                            |                                      |                  |
| Output voltage Distortion            |   |                                      | typically <5% a        | full load (linear or non   | -linear)                   |                                      |                  |
| Output frequency (synched to mains)  |   |                                      | 57-63Hz                |  |                            | 47-                                  | 53%              |
| Output frequency (not synched)       |   |                                      | 60Hz                   |  |                            | 50                                   | Hz               |
| Crest Factor                         |   |                                      | up                     | to 5:1   |                            |                                      |                  |
| Input                                |   |                                      |                        |  |                            |                                      |                  |
| Nominal input Voltage                | 208 d                                     | r 240                                |                        | 208  |                            | 220,2                                | 30,240V          |
| nput Frequency                       |   |                                      | 50/                    | 60 Hz +/- 5Hz. (auto ser   | sing)                      |                                      |                  |
| nput Connection                      |   |                                      |                        | Hardwire (3-wire)  |                            |                                      |                  |
| Input Voltage range                  |   |                                      |                        | 155-276V   |                            |                                      |                  |
| Input Power Factor at full load      |   |                                      |                        | 0.98   |                            |                                      |                  |
|                                      |   |                                      |                        |  |                            |                                      |                  |
| Battery Type                         |   | Maintena                             | ance - free, sealed le | ad acid battery with su  | spended electrolyte, leak  | proof                                |                  |
| Typical recharge time                |   |                                      |                        | 3 hrs.   |                            |                                      |                  |
| Replacement Battery Cartridge        | (2) SYBT3                                 | (3) SYBT3                            | (2) SYBT3              | (3) SYBT3  | (3) SYBT3                  | (2) SYBT3                            | (3) SYBT3        |
|                                      |   |                                      |                        |  |                            |                                      |                  |
| Interface port                       |   |                                      | '                      | DB-9; RS-232; Smart-   | Slot Card (2)              | '                                    |                  |
| Management Software included         |   | PowerCh                              | ute Network Shutdov    | vn, Web/SNMP Manag   | ement Card ships standa    | ırd                                  |                  |
| Control panel                        |   |                                      | Multi-fund             | tion LCD status & cont   | rol console in Multiple La | anguages                             |                  |
| Audible Alarm                        |   | Alarm wh                             | nen on-battery; distin | ctive low battery alarm  | ; configurable delays      |                                      |                  |
| Emergency Power Off (EPO)            |   |                                      |                        | Yes  |                            |                                      |                  |
|                                      |   |                                      |                        |  |                            |                                      |                  |
| Power Module Bays (total/filled)     | 4/2                                       | 4/3                                  | 4/2                    | 4/3  | 4/3                        | 4/2                                  | 4/3              |
| Battery Module Bays (total/filled)   | 4/2                                       | 4/3                                  | 4/2                    | 4/3  | 4/3                        | 4/2                                  | 4/3              |
| Dimensions HxWxD** (in/cm)           | 15U/26.25                                 | x19x27.2"                            |                        | 75x19x27.2"  | 19U/ 33.25x19x27.2"        | 15U/26.                              | 25x19x27.2"      |
|                                      | 66.7x48.3                                 | 1                                    |                        | 8.3x69.1cm   | 84.46x48.3x69.1cm          |                                      | 3.3x69.1cm       |
| Weight net (lbs)                     | 358                                       | 452                                  | 453                    | 547  | 642                        | 358                                  | 452              |
| Weight shipping                      | 398                                       | 492                                  | 503                    | 597  | 692                        | 398                                  | 492              |
|                                      |   |                                      |                        |  |                            |                                      |                  |
| Operating Temperature                |   |                                      |                        | 0-40 C/32 - 104 F  |                            |                                      |                  |
| Operating Relative humidity          |   |                                      |                        | 0-95%  |                            |                                      |                  |
| Operating Elevation                  |   |                                      |                        | 0-10000 feet/0-3000m   |                            |                                      |                  |
| Storage Temperature                  | -15 to 45C/5 to 113F                      |                                      |                        |  |                            |                                      |                  |
| Storage Relative Humidity            |   |                                      |                        | 0-95%  |                            |                                      |                  |
| Storage Elevation                    |   |                                      |                        | 0-50,000 ft/0-15,000m  |                            |                                      |                  |
| Audible noise at 3 feet (1 m)        |   |                                      |                        | 62dBA  |                            |                                      |                  |
| On-line thermal dissipation (BTU/hr) | 1889                                      | 2834                                 | 2855                   | 4282   | 4282                       | 1889                                 | 2834             |
|                                      |   |                                      |                        |  |                            |                                      |                  |
| Approvals                            |   |                                      | CSA; FCC A; UL 1778    |  |                            | C-tick; EN 50                        | 091-2;VDE        |
|                                      |   |                                      |                        |  |                            |                                      |                  |
| Warranty                             |   |                                      | 2 years, repair or     | replace(1 year for batto   | ery modules in India)      |                                      |                  |
| "T" level for Service Option pricing | T7  | T7                                   | T7                     | T7   | T7                         | Т9                                   | Т9               |

<sup>\*</sup>Also referred to as 5-20RA (Canada) or T-Slot, and can be used as both 5-15R or 5-20R.

<sup>\*\*</sup>Depth is measured from the front rail to the rear of the unit.

# Symmetra Rack-mount 2-12kVA Configuration Guide

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More info on page

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## Step 1

Use your input and output requirements to determine the correct Symmetra product family.

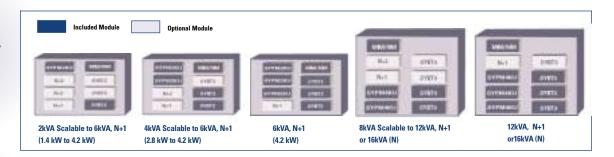
# Step 2

Determine the part number based on your current and future load requirements.

|     | Input                  | /Output conside | rations                |                              |                        |                        |                              |
|-----|------------------------|-----------------|------------------------|------------------------------|------------------------|------------------------|------------------------------|
|     | Input voltage          |                 | 208/240VAC             | 208/240VAC                   | 230VAC                 | 100/200VAC             | 100/200VAC                   |
|     | Output voltage         |                 | 208/240VAC             | 120/208/240VAC               | 230VAC                 | 200VAC                 | 200VAC                       |
|     | Input/Output frequency |                 | 60 Hz                  | 60 Hz                        | 50/60 Hz               | 60 Hz                  | 60 Hz                        |
|     | Output connections     |                 | Outlets only           | Outlets only                 | Outlets only           | Outlets only           | Outlets only                 |
|     |                        |                 |                        |                              |                        |                        |                              |
|     |                        |                 |                        |                              |                        |                        |                              |
| ent | kVA                    | Future kVA      |                        |                              |                        |                        |                              |
| ent | kVA                    | Future kVA<br>6 | SYH2K6RMT              | SYH2K6RMT-P1                 | SYH2K6RMI              | SYH2K6RMJ              | SYH2K6RMJ-P1                 |
| ent | kVA                    |                 | SYH2K6RMT<br>SYH4K6RMT | SYH2K6RMT-P1<br>SYH4K6RMT-P1 | SYH2K6RMI<br>SYH4K6RMI | SYH2K6RMJ<br>SYH4K6RMJ | SYH2K6RMJ-P1<br>SYH4K6RMJ-P1 |
| ent | kVA                    | 6               |                        |                              | *                      |                        | •                            |
|     | kVA                    | 6<br>6<br>6     | SYH4K6RMT              | SYH4K6RMT-P1                 | SYH4K6RMI              | SYH4K6RMJ              | SYH4K6RMJ-P1                 |
|     |                        | 6<br>6<br>6     | SYH4K6RMT<br>SYH6K6RMT | SYH4K6RMT-P1<br>SYH6K6RMT-P1 | SYH4K6RMI<br>SYH6K6RMI | SYH4K6RMJ<br>SYH6K6RMJ | SYH4K6RMJ-P1<br>SYH6K6RMJ-P1 |

# Step 3

Add redundancy (N+1): Purchase an additional Power Module (SYPM2KU or SYPM4KU).



## **Step 4** Select appropriate runtime for your application.

| Unit — scalable to         | Load<br>kVA/kW | Standard<br>configuration | Std + (1)<br>SYBT2* | Std + (2)<br>SYBT2* | Std + (1)<br>SYRMXR4B4* | Std + (2)<br>SYRMXR4B4* | Std + (3)<br>SYRMXR4B4* | Std +(4)<br>SYRMXR4B4*  |
|----------------------------|----------------|---------------------------|---------------------|---------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 2 (1.4) - 6 (4.2) kVA (kW) | 2/1.4          | 12m                       | 31m                 | 51m                 | 1.5h                    | 3h                      | 4.5h                    | 6h                      |
| 4 → 6 kVA                  | 2/1.4          | 29m                       | 48m                 | 1.1h                | 1.8h                    | 3.2h                    | 4.6h                    | 6.1h                    |
| (2.8 -> 4.2 kW)            | 4/2.8          | 12m                       | 22m                 | 31m                 | 52m                     | 1.5h                    | 2.3h                    | 3h                      |
| 6kVA                       | 2/1.4          | 46m                       | 1.1h**              | n/a                 | 2h                      | 3.4h                    | 4.7h                    | 6.2h                    |
| (4.2kW)                    | 4/2.8          | 21m                       | 30m**               | n/a                 | 1h                      | 1.7h                    | 2.4h                    | 3.1h                    |
|                            | 6/4.2          | 12m                       | 19m**               | n/a                 | 38m                     | 1.1h                    | 1.6h                    | 2.1h                    |
| Unit → scalable to         | Load<br>kVA/kW | Standard<br>configuration | Std + (1)<br>SYBT3* | Std + (2)<br>SYBT3* | Std + (1)<br>SYRMXR4B4* | Std + (2)<br>SYRMXR4B4* | Std + (3)<br>SYRMXR4B4* | Std + (4)<br>SYRMXR4B4* |
| 8 → 16kVA                  | 4/2.8          | 15m                       | 27m                 | 40                  |                         |                         |                         |                         |
|                            |                | 13111                     | 2/111               | 40m                 | 51m                     | 1.5h                    | 2.2h                    | 3h                      |
| (5.6 → 11.2kW)             | 6/4.2          | 8m                        | 15m                 | 40m<br>26m          | 51m<br>31m              | 1.5h<br>58m             | 2.2h<br>1.4h            | 3h<br>1.9h              |
| (5.6 → 11.2kW)             | 6/4.2<br>8/5.6 | -                         |                     | -                   | -                       | -                       |                         | -                       |
| (5.6 → 11.2kW)  12 → 16kVA |                | 8m                        | 15m                 | 26m                 | 31m                     | 58m                     | 1.4h                    | 1.9h                    |
| ,                          | 8/5.6          | 8m<br>5m                  | 15m<br>10m          | 26m<br>16m          | 31m<br>21m              | 58m<br>40m              | 1.4h<br>1h              | 1.9h<br>1.3h            |

<sup>\*</sup> Note: See page 15 for correct extended run model number based on input voltage.

## Step 5

**Determine Manageability and Accessory requirements (see page 9)** 

\_\_\_\_\_ SmartSlot Accessory (only 1 additional)
\_\_\_\_\_ Other Options \_\_\_\_\_ PDUs

# Step 6

**Determine Serviceability requirements (see page 19)** 

| Extended Warranty | On-Site Service     |
|-------------------|---------------------|
| System Start-up   | Network Integration |

<sup>\*\*</sup> Not applicable for N+1 configuration.