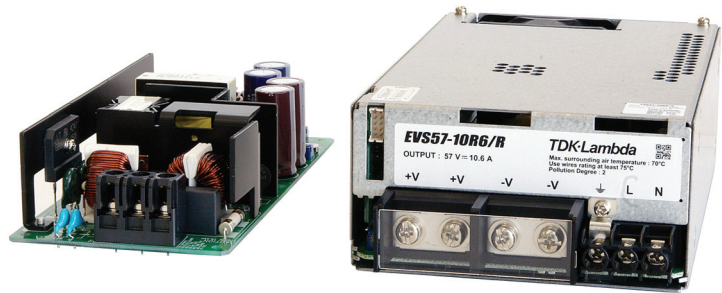


300 and 600W Constant Current Power Supplies

Features

- ◆ Universal Input (85 - 265VAC)
- ◆ Adjustable Current Settings
- ◆ Convection Cooled Rating
- ◆ Five Year Warranty
- ◆ Suitable for Battery Charging



Key Market Segments & Applications



Specifications				
Model		EVS300		EVS600
Input Voltage	V	85-265VAC (47-63Hz) or 120-370VDC (1)		85-265VAC (47-63Hz) or 120-330VDC (1)
Input Current (1)	A	3.6 / 1.8		7.2 / 4.0
Inrush Current (2)(3)	A	15 / 30		20 / 40
Power Factor	-	0.97/0.93(2). Meets EN61000-3-2		0.95/0.9(2). Meets EN61000-3-2
Leakage Current	mA	0.5mA Max. Typically 0.2/0.4mA(2)		Less than 0.75mA
Temperature Coefficient	%/°C	<0.02%/°C		
Constant Current Setting Accuracy	A	±10%		
Overvoltage Protection	V	18V*: 19.8-23.4V, 36V: 39.6-46.8V, 57V: 62.7-74.1V (* EVS300 only)		
Hold Up Time (Typ)	ms	10ms at 100VAC input		
Efficiency (2)	%	18V: 86/89%, 36V: 88/91%, 57V: 87/90%		36V: 85/88%, 57V: 84/87%
Remote On/Off	-	Optional		
Series & Parallel Operation	-	Yes, see instruction manual		
Operating Temperature (No external airflow)	°C	-20 to +70°C		-20 to +70°C
Operating Temperature	°C	Derate linearly to 40% load from 45 to 70°C		Derate linearly to 20% load from 50 to 70°C
External airflow (1.4m/s)	°C	-20 to +70°C		Not applicable (EVS600 has internal fan)
Storage Temperature	°C	Derate linearly to 70% load from 60 to 70°C		
Humidity (non condensing)	%RH	-30 to +75°C		
Cooling	-	Operating: 30 - 90%RH, Storage: 10 - 90%RH		Internal fan
Withstand Voltage	VAC	Convection or forced air		
Isolation Resistance	MΩ	Input to Ground 2kVAC, Input to Output 3kVAC, Output to Ground 500VAC for 1 min.		
Vibration (non operating)	-	>100MΩ at 25°C & 70%RH, Output to Ground 500VDC		
Shock	-	10 - 55Hz (1 minute sweep), 19.6m/s² constant, X, Y, Z 1 hour each		
Safety Agency Certifications	-	< 196.1 m/s²		
Conducted & Radiated EMI	-	UL60950-1, CSA60950-1, EN60950-1, CE Mark		
Immunity	-	EN55011/EN55022-B, FCC Class B, VCCI-B		
Weight (Typ)	g	EN61000-4-2, -3, -4, -5, -6, -8, -11; EN61000-6-2		1600g
Size (WxHxD)	in	540g (open frame)		4.72 x 2.4 x 7.48
	mm	3.31 x 1.65 x 7.09		120 x 61 x 190mm
Warranty	ys	84 x 42 x 180mm		Five Years

Notes:

- (1) Safety certified for AC input only. EVS300 derate linearly to 80% load from 90 to 85Vac. EVS600 derate linearly to 80% load from 110 to 85Vac
- (2) 100/200VAC
- (3) 25°C ambient (cold start)

Model	Nominal Voltage Output	Adjust Range (V)	Max Current (115Vac input)	Max Current (230Vac input)	Current Adjust Range (115Vac)	Current Adjust Range (230Vac)	CV Line Reg (mV)	CV Load Reg (mV)	Ripple & Noise (mV)
EVS18-16R7	18V	12 - 18V	16.7A		8.35 - 16.70A		72	144	200
EVS36-8R4	36V	24 - 36V	8.4A		4.20 - 8.40A		144	252	250
EVS36-16R7	36V	24 - 36V	15.3A	16.7A	8.35 - 15.30A	8.35 - 16.70A	144	288	200
EVS57-5R3	57V	48 - 57V	5.3A		2.65 - 5.30A		288	285	250
EVS57-10R6	57V	48 - 57V	9.7A	10.6A	5.30 - 9.70A	5.30 - 10.60A	228	456	200

Technical drawing of the EVS 300W power supply unit, showing front, side, and detail views with dimensions and labels.

Front View (Top):

- Overall width: 180±1
- Overall height: 86±1
- Lead out less than 3mm
- Terminal cover
- Terminal block with pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813,

Suffix	Description
-	None
/A	Cover & L Bracket (Standard on EVS600)
/R	Remote On/Off
Example	EVS57-5R3/RA

Technical drawings of the EVS 600W power supply unit, showing front, side, and top views with dimensions and labels.

Front View (Top Left): Shows the input/output connectors and adjustment potentiometers. Dimensions include a total width of 110.7, a connector width of 46.6, and a terminal block width of 10.2. Labels include "LED", "VOLTAGE ADJUSTMENT", "CURRENT ADJUSTMENT", "NAME PLATE (1) SEE NOTE A", "TERMINAL COVER", "NAME PLATE (2) SEE NOTE A", and "AIR FLOW".

Side View (Bottom Left): Shows the unit's profile with a height of 26 MAX and a base width of 21 MAX. The main body width is 37.

Top View (Right): Shows the unit's footprint with a length of 147.0 ± 0.5 and a width of 109.1. It includes a "CURRENT ADJUSTMENT" potentiometer and a "VOLTAGE ADJUSTMENT" potentiometer. Dimensions for the terminal block area are 10.2 ± 0.5 and 6.0 ± 0.5. The main body width is 7.5.

Bottom View (Bottom Right): Shows the underside of the unit with a length of 140.0 ± 0.5 and a width of 31 ± 1. It includes a "CURRENT ADJUSTMENT" potentiometer and a "VOLTAGE ADJUSTMENT" potentiometer. The main body width is 37.

Model	Description
EVS-RP6020	20A ORing Module for battery charging use

