

VOLTA DAMASK

Steady Power Solutions for Daily Life



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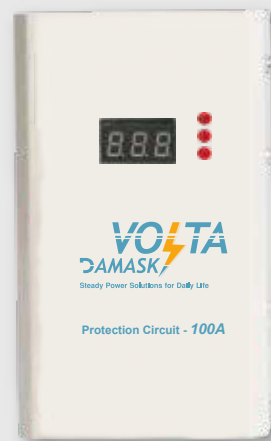


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We Damask Volta Electric Company - use all our resources skills and know - how to provide our customers the cutting edge technologies - through our research & development department





Our products are :

- High quality
- Reliable
- Cost effective
- Easy to operate and maintain

Our aim is to earn the trust of our customers by providing steady power solutions for their daily applications



What is the Damask Volta series ?

Damask Volta series is a set of high-quality products that fulfill the daily demands for steady and reliable power. Damask Volta is a trademark for Damask Volta Electric, under that mark there are the following products :

- 1- PV-R : Relay type AC Automatic Voltage Regulator
- 2- PV-S : Servo type AC Automatic Voltage Regulator
- 3- PV-I : Inverter type Automatic Voltage Regulator
- 4- PV-RB : Relay Type Battery Charger (Manual, automatic and Solar)
- 5- PV-SMB : Switch Mode Battery Charger
- 6- PV-VFP : Voltage Instability Protector



Damask Volta series features

- High effective for high power conditioning .
- High output power range : 0.5 - 40 KV A .
- Ease of maintenance .
- Strong overload capability to sustain impulse loads .
- Widely applied in industrial and household applications .
- Sustainable for impulse load, capable to sustaining surge non-linear load .
- Protection with different levels .
- Comprehensive protection includes over voltage over current over load, put under voltage . and over temperature .
- High overload capability.

Applications

- Home Appliances
- Elevator Control
- Medical Power Conditioning
- Industrial Power supply

5-11

PV-R: Relay type AC Automatic Voltage Regulator (Type A)

PV-R: Relay type AC Automatic Voltage Regulator (Type B)

12-16

PV-S : Servo type AC Automatic Voltage Regulator

17-18

PV-I : Inverter Type Automatic Voltage Regulator

19-22

PV-RB : Relay Type Battery Charger

23

PV-SMB : Switch Mode Battery Charger

24

PV-VFP : Voltage Instability Protector

1- PV-R: Relay type AC Automatic Voltage Regulator (Type A)

Under this category, there are two types :

PV-R Type (A) : Single phase and Three phase

PV-R Type (B) : Single phase, Two phase and three phases

1.1 PV-R Type (A) Technical Specifications

- 1- Single phase and three phases
- 2- The input voltage rang for single phase (90-300) , (130-280) and (160-260)
- 3- The input voltage rang for three phases (160-420) , (220-420) and (270-420)
- 4- The output voltage is 220 V or 380 V
- 5- Aluminum coil
- 6- Excellent box without outer door
- 7- The device has a temperature sensor mounted on the transformer
- 8- Safety temperature sensor to protect the device against over heating
- 9- Bypass switch to put the device out/in operation
- 10- Delay timer for voltage stabilization at the start of operation
- 11- Automatic restart of the device after calibrated time (By default 15s)
- 12- Two displays (Seven segment type) to show
 - Input voltage
 - Output voltage
 - The transformer temperature in case of cut off due to the temperature rise
 - The regulation stage number
 - Show Voltage fluctuation (HV, LV) when the device is switched off due to
 - the rise/drop over/under of a calibrated value

PV-R Type (A) Protection

- Over voltage protection via a special circuit
- Transformer over heating protection
- Calibrated voltage fluctuation (HV, LV) protection
- Delay timers for starting up and restarting



1- PV-R: Relay type AC Automatic Voltage Regulator (Type A)

Catalog Number	Power [kVA]	Input Range [Volt]	Output Accuracy [Volt]	Ship Weight [kg]	Cabinet Size L, W, H[CM]
PV-R.5K90-300A1	0.5	90-300	220±2	2.6	17, 8.5, 27
PV-R.5K-130-280A1	0.5	130-300	220±2	2.6	17, 8.5, 27
PV-R.5K-160-260A1	0.5	160-300	220±2	2.6	17, 8.5, 27
PV-R1K90-300A1	1	90-300	220±2	4	17, 8.5, 27
PV-R1K-130-280A1	1	130-300	220±2	4	17, 8.5, 27
PV-R1K-160-260A1	1	160-300	220±2	4	17, 8.5, 27
PV-R1.5K-90-300A1	1.5	90-300	220±2	5	17, 10.5, 27
PV-R1.5K-130-280A1	1.5	130-300	220±2	5	17, 10.5, 27
PV-R1.5K-160-260A1	1.5	160-300	220±2	5	17, 10.5, 27
PV-R2K-90-300A1	2	90-300	220±2	7	17, 10.5, 27
PV-R2K-130-280A1	2	130-300	220±2	7	17, 10.5, 27
PV-R2K-160-260A1	2	160-300	220±2	7	17, 10.5, 27
PV-R3K-90-300A1	3	90-300	220±2	11	16, 18, 31
PV-R3K-130-280A1	3	130-300	220±2	11	16, 18, 31
PV-R3K-160-260A1	3	160-300	220±2	11	16, 18, 31
PV-R5K-90-300A1	5	90-300	220±2	21.35	22,22,52
PV-R5K-130-280A1	5	130-300	220±2	21.35	22,22,52
PV-R5K-160-260A1	5	160-300	220±2	21.35	22,22,52
PV-R7.5K-90-300A1	6	90-300	220±2	23.5	22,22,52
PV-R7.5K-130-280A1	6	130-300	220±2	23.5	22,22,52
PV-R7.5K-160-260A1	6	160-300	220±2	23.5	22,22,52
PV-R8K-90-300A1	8	90-300	220±2	25.2	22,22,52
PV-R8K-130-280A1	8	130-300	220±2	25.2	22,22,52
PV-R8K-160-260A1	8	160-300	220±2	25.2	22,22,52
PV-R10K-90-300A1	10	90-300	220±2	38.8	28, 26, 63
PV-R10K-130-280A1	10	130-300	220±2	38.8	28, 26, 63
PV-R10K-160-260A1	10	160-300	220±2	38.8	28, 26, 63
PV-R12K-90-300A1	12	90-300	220±2	45	28, 26, 63
PV-R12K-130-280A1	12	130-300	220±2	45	28, 26, 63
PV-R12K-160-260A1	12	160-300	220±2	45	28, 26, 63
PV-R15K-90-300A1	15	90-300	220±2	51.5	28, 26, 63
PV-R15K-130-280A1	15	130-300	220±2	51.5	28, 26, 63
PV-R15K-160-260A1	15	160-300	220±2	51.5	28, 26, 63
PV-R20K-90-300A1	20	90-300	220±2	57	32, 30,66
PV-R20K-130-280A1	20	130-300	220±2	57	32, 30,66
PV-R20K-160-260A1	20	160-300	220±2	57	32, 30,66
PV-R20K-90-300A1	20	90-300	220±2	57	32, 30,66
PV-R20K-130-280A1	20	130-300	220±2	57	32, 30,66
PV-R20K-160-260A1	20	160-300	220±2	57	32, 30,66
PV-R30K-90-300A1	30	90-300	220±2	71	32, 30,66
PV-R30K-130-280A1	30	130-300	220±2	71	32, 30,66
PV-R30K-160-260A1	30	160-300	220±2	71	32, 30,66

1- PV-R: Relay type AC Automatic Voltage Regulator (Type A)

Catalog Number	Power [kVA]	Input Range [Volt]	Output Accuracy [Volt]	Ship Weight [kg]	Cabinet Size L, W, H [CM]
PV-R1.5K-160-420A3	1.5	160-420	220±2	7.8	34, 24, 48
PVR1.5K-220-420A3	1.5	220-420	220±2	7.8	34, 24, 48
PVR1.5K-270-420A3	1.5	270-420	220±2	7.8	34, 24, 48
PVR3K-160-420A3	3	160-420	220±2	12	32, 36, 62
PVR3K-220-420A3	3	220-420	220±2	12	32, 36, 62
PVR3K-270-420A3	3	270-420	220±2	12	32, 36, 62
PVR5K-160-420A3	5	160-420	220±2	15	34, 22, 54
PVR5K-220-420A3	5	220-420	220±2	15	34, 22, 54
PVR5K-270-420A3	5	270-420	220±2	15	34, 22, 54
PVR6K-160-420A3	6	160-420	220±2	14	44, 44, 104
PVR6K-220-420A3	6	220-420	220±2	14	44, 44, 104
PVR6K-270-420A3	6	270-420	220±2	14	44, 44, 104
PVR9K-160-420A3	9	160-420	220±2	33	44, 44, 104
PVR9K-220-420A3	9	220-420	220±2	33	44, 44, 104
PVR9K-270-420A3	9	270-420	220±2	33	44, 44, 104
PVR15K-160-420A3	15	160-420	220±2	64	44, 44, 104
PVR15K-220-420A3	15	220-420	220±2	64	44, 44, 104
PVR15K-270-420A3	15	270-420	220±2	64	44, 44, 104
PVR25K-160-420A3	25	160-420	220±2	75	56, 60, 132
PVR25K-220-420A3	25	220-420	220±2	75	56, 60, 132
PVR25K-270-420A3	25	270-420	220±2	75	56, 60, 132
PVR30K-160-420A3	30	160-420	220±2	116	56, 60, 132
PVR30K-220-420A3	30	220-420	220±2	116	56, 60, 132
PVR30K-270-420A3	30	270-420	220±2	116	56, 60, 132
PVR35K-160-420A3	35	160-420	220±2	135	56, 60, 132
PVR35K-220-420A3	35	220-420	220±2	135	56, 60, 132
PVR35K-270-420A3	35	270-420	220±2	135	56, 60, 132
PVR45K-160-420A3	45	160-420	220±2	154	56, 60, 132
PVR45K-220-420A3	45	220-420	220±2	154	56, 60, 132
PVR45K-270-420A3	45	270-420	220±2	154	56, 60, 132
PVR60K-160-420A3	60	160-420	220±2	171	56, 60, 132
PVR60K-220-420A3	60	220-420	220±2	171	56, 60, 132
PVR60K-270-420A3	60	270-420	220±2	171	56, 60, 132
PVR60K-160-420A3	60	160-420	220±2	171	56, 60, 132
PVR75K-160-420A3	75	160-420	220±2	186	56, 60, 132
PVR75K-220-420A3	75	220-420	220±2	186	56, 60, 132
PVR75K-270-420A3	75	270-420	220±2	186	56, 60, 132
PVR75K-160-420A3	75	160-420	220±2	186	56, 60, 132
PVR90K-160-420A3	90	160-420	220±2	213	56, 60, 132
PVR75K-160-420A3	90	160-420	220±2	213	56, 60, 132
PVR90K-270-420A3	90	270-420	220±2	213	56, 60, 132
PVR90K-160-420A3	90	160-420	220±2	213	56, 60, 132

1- PV-R: Relay type AC Automatic Voltage Regulator (Type B)

Technical Specifications

- 1- Single phase, two phase and three phases
- 2- The input voltage rang for single phase : (160-260) , (160-300) , (140-260) , (140-300) (120-260) , (120-300) , (100-260) , (100-300) , (80-260) and (80-300)
- 3- The input rang of the two phase is : (80-420) , (100-420) , (120-260) , (160-420)
- 4- The input voltage rang for three phases : (140-420) , (170-420) , (200-420) , (240-420) , (270-420)
- 5- The output voltage is 220 V or 380 V
- 6- Available copper coil
- 7- Excellent box with outer door
- 8- Bypass switch to put the device out/in operation
- 9- Delay timer for voltage stabilization at the start of operation
- 10- Automatic restart of the device after calibrated time (By default 15s)
- 11- Two displays (Seven segment type) to show
 - Input voltage
 - Output voltage
 - The current load
 - The regulation stage number
 - Show Voltage fluctuation (HV, LV) when the device is switched off due to the rise/drop over/under of a calibrated value
 - Show the over voltage state (OV)

PV-R Type (B) Protection

- Over current protection using a current sensor
- Over voltage protection via a special circuit
- Calibrated voltage fluctuation (HV, LV) protection
- Delay timers for starting up and restarting operation



1- PV-R: Relay type AC Automatic Voltage Regulator (Type B)

Catalog Number	Power [kVA]	Input Range [Volt]	Output Accuracy [Volt]	Ship Weight [kg]	Cabinet Size L, W, H [CM]
PVR5K-160-260C1	5	160-260	220±2	27	25, 26, 47
PVR5K-160-300C1	5	160-300	220±2	27	25, 26, 47
PVR5K-140-260C1	5	140-260	220±2	27	25, 26, 47
PVR5K-140-300C1	5	140-300	220±2	27	25, 26, 47
PVR5K-120-260C1	5	120-260	220±2	27	25, 26, 47
PVR5K-120-300C1	5	120-300	220±2	27	25, 26, 47
PVR5K-80-260C1	5	80-260	220±2	27	25, 26, 47
PVR5K-80-300C1	5	80-300	220±2	27	25, 26, 47
PVR10K-160-260C1	10	160-260	220±2	40	29, 30, 58
PVR10K-160-300C1	10	160-300	220±2	40	29, 30, 58
PVR10K-140-260C1	10	140-260	220±2	40	29, 30, 58
PVR10K-140-300C1	10	140-300	220±2	40	29, 30, 58
PVR10K-120-260C1	10	120-260	220±2	40	29, 30, 58
PVR10K-120-300C1	10	120-300	220±2	40	29, 30, 58
PVR10K-80-260C1	10	80-260	220±2	40	29, 30, 58
PVR10K-80-300C1	10	80-300	220±2	40	29, 30, 58
PVR12K-160-260C1	12	160-260	220±2	48.3	29, 30, 58
PVR12K-160-300C1	12	160-300	220±2	48.3	29, 30, 58
PVR12K-140-260C1	12	140-260	220±2	48.3	29, 30, 58
PVR12K-140-300C1	12	140-300	220±2	48.3	29, 30, 58
PVR12K-120-260C1	12	120-260	220±2	48.3	29, 30, 58
PVR12K-120-300C1	12	120-300	220±2	48.3	29, 30, 58
PVR12K-80-260C1	12	80-260	220±2	48.3	29, 30, 58
PVR12K-80-300C1	12	80-300	220±2	48.3	29, 30, 58
PVR15K-160-260C1	15	160-260	220±2	56.6	35, 34, 62
PVR15K-160-300C1	15	160-300	220±2	56.6	35, 34, 62
PVR15K-140-260C1	15	140-260	220±2	56.6	35, 34, 62
PVR15K-140-300C1	15	140-300	220±2	56.6	35, 34, 62
PVR15K-120-260C1	15	120-260	220±2	56.6	35, 34, 62
PVR15K-120-300C1	15	120-300	220±2	56.6	35, 34, 62
PVR15K-80-260C1	15	80-260	220±2	56.6	35, 34, 62
PVR15K-80-300C1	15	80-300	220±2	56.6	35, 34, 62
PVR20K-160-260C1	20	160-260	220±2	67.4	35, 34, 62
PVR20K-160-300C1	20	160-300	220±2	67.4	35, 34, 62
PVR20K-140-260C1	20	140-260	220±2	67.4	35, 34, 62
PVR20K-140-300C1	20	140-300	220±2	67.4	35, 34, 62
PVR20K-120-260C1	20	120-260	220±2	67.4	35, 34, 62
PVR20K-120-300C1	20	120-300	220±2	67.4	35, 34, 62
PVR20K-80-260C1	20	80-260	220±2	67.4	35, 34, 62
PVR20K-80-300C1	20	80-300	220±2	67.4	35, 34, 62
PVR25K-160-260C1	25	160-260	220±2	73	45, 39, 70
PVR25K-160-300C1	25	160-300	220±2	73	45, 39, 70
PVR25K-140-260C1	25	140-260	220±2	73	45, 39, 70
PVR25K-140-300C1	25	140-300	220±2	73	45, 39, 70
PVR25K-120-260C1	25	120-260	220±2	73	45, 39, 70
PVR25K-120-300C1	25	120-300	220±2	73	45, 39, 70
PVR25K-80-260C1	25	80-260	220±2	73	45, 39, 70
PVR25K-80-300C1	25	80-300	220±2	73	45, 39, 70
PVR30K-160-260C1	30	160-260	220±2	99	45, 39, 70
PVR30K-160-300C1	30	160-300	220±2	99	45, 39, 70
PVR30K-140-260C1	30	140-260	220±2	99	45, 39, 70
PVR30K-140-300C1	30	140-300	220±2	99	45, 39, 70
PVR30K-120-260C1	30	120-260	220±2	99	45, 39, 70
PVR30K-120-300C1	30	120-300	220±2	99	45, 39, 70
PVR30K-80-260C1	30	80-260	220±2	99	45, 39, 70
PVR30K-80-300C1	30	80-300	220±2	99	45, 39, 70

1- PV-R: Relay type AC Automatic Voltage Regulator (Type B)

Catalog Number	Power [kVA]	Input Range [Volt]	Output Accuracy [Volt]	Ship Weight [kg]	Cabinet Size L, W, H[CM]
PVR5K-80-420C2	5	80-420	220±3	35	29, 30, 58
PVR5K-100-420C2	5	100-420	220±4	35	29, 30, 58
PVR5K-120-420C2	5	120-420	220±5	35	29, 30, 58
PVR5K-140-420C2	5	140-420	220±6	35	29, 30, 58
PVR5K-160-420C2	5	160-420	220±7	35	29, 30, 58
PVR10K-80-420C2	10	80-420	220±3	50.5	35, 34, 62
PVR10K-100-420C2	10	100-420	220±4	50.5	35, 34, 62
PVR10K-120-420C2	10	120-420	220±5	50.5	35, 34, 62
PVR10K-140-420C2	10	140-420	220±6	50.5	35, 34, 62
PVR10K-160-420C2	10	160-420	220±7	50.5	35, 34, 62
PVR12K-80-420C2	12	80-420	220±3	56.6	35, 34, 62
PVR12K-100-420C2	12	100-420	220±4	56.6	35, 34, 62
PVR12K-120-420C2	12	120-420	220±5	56.6	35, 34, 62
PVR12K-140-420C2	12	140-420	220±6	56.6	35, 34, 62
PVR12K-160-420C2	12	160-420	220±7	56.6	35, 34, 62
PVR15K-80-420C2	15	80-420	220±3	82.8	45, 39, 70
PVR15K-100-420C2	15	100-420	220±4	82.8	45, 39, 70
PVR15K-120-420C2	15	120-420	220±5	82.8	45, 39, 70
PVR15K-140-420C2	15	140-420	220±6	82.8	45, 39, 70
PVR15K-160-420C2	15	160-420	220±7	82.8	45, 39, 70
PVR20K-80-420C2	20	80-420	220±3	89	45, 39, 70
PVR20K-100-420C2	20	100-420	220±4	89	45, 39, 70
PVR20K-120-420C2	20	120-420	220±5	89	45, 39, 70
PVR20K-140-420C2	20	140-420	220±6	89	45, 39, 70
PVR20K-160-420C2	20	160-420	220±7	89	45, 39, 70
PVR25K-80-420C2	25	80-420	220±3	97	45, 39, 70
PVR25K-100-420C2	25	100-420	220±4	97	45, 39, 70
PVR25K-120-420C2	25	120-420	220±5	97	45, 39, 70
PVR25K-140-420C2	25	140-420	220±6	97	45, 39, 70
PVR25K-160-420C2	25	160-420	220±7	97	45, 39, 70
PVR30K-80-420C2	30	80-420	220±3	110	45, 39, 70
PVR30K-100-420C2	30	100-420	220±4	110	45, 39, 70
PVR30K-120-420C2	30	120-420	220±5	110	45, 39, 70
PVR30K-140-420C2	30	140-420	220±6	110	45, 39, 70

2- PV-R: Relay type AC Automatic Voltage Regulator (Type B)

Catalog Number	Power [kVA]	Input Range [Volt]	Output Accuracy [Volt]	Ship Weight [kg]	Cabinet Size L, W, H [CM]
PVR15K-140-420TC3	15	140-420	380±7	80	37.5, 39, 70.5
PVR15K-170-420TC3	15	170-420	380±6	80	37.5, 39, 70.5
PVR15K-200-420TC3	15	200-420	380±5	80	37.5, 39, 70.5
PVR15K-240-420TC3	15	240-420	380±5	80	37.5, 39, 70.5
PVR15K-270-420TC3	15	270-420	380±3	80	37.5, 39, 70.5
PVR25K-140-420TC3	25	140-420	380±7	120	43.5, 45, 87
PVR25K-170-420TC3	25	170-420	380±6	120	43.5, 45, 87
PVR25K-200-420TC3	25	200-420	380±5	120	43.5, 45, 87
PVR25K-240-420TC3	25	240-420	380±5	120	43.5, 45, 87
PVR25K-270-420TC3	25	270-420	380±3	120	43.5, 45, 87
PVR30K-140-420TC3	30	140-420	380±7	130	43.5, 45, 87
PVR30K-170-420TC3	30	170-420	380±6	130	43.5, 45, 87
PVR30K-200-420TC3	30	200-420	380±5	130	43.5, 45, 87
PVR30K-240-420TC3	30	240-420	380±5	130	43.5, 45, 87
PVR30K-270-420TC3	30	270-420	380±3	130	43.5, 45, 87
PVR45K-140-420TC3	45	140-420	380±7	170	45, 39, 190
PVR45K-170-420TC3	45	170-420	380±6	170	45, 39, 190
PVR45K-200-420TC3	45	200-420	380±5	170	45, 39, 190
PVR45K-240-420TC3	45	240-420	380±5	170	45, 39, 190
PVR45K-270-420TC3	45	270-420	380±3	170	45, 39, 190
PVR60K-140-420TC3	60	140-420	380±7	216	45, 39, 190
PVR60K-170-420TC3	60	170-420	380±6	216	45, 39, 190
PVR60K-200-420TC3	60	200-420	380±5	216	45, 39, 190
PVR60K-240-420TC3	60	240-420	380±5	216	45, 39, 190
PVR60K-270-420TC3	60	270-420	380±3	216	45, 39, 190
PVR75K-140-420TC3	75	140-420	380±7	234	45, 39, 190
PVR75K-170-420TC3	75	170-420	380±6	234	45, 39, 190
PVR75K-200-420TC3	75	200-420	380±5	234	45, 39, 190
PVR75K-240-420TC3	75	240-420	380±5	234	45, 39, 190
PVR75K-270-420TC3	75	270-420	380±3	234	45, 39, 190
PVR90K-140-420TC3	90	140-420	380±7	300	45, 39, 190
PVR90K-170-420TC3	90	170-420	380±6	300	45, 39, 190
PVR90K-200-420TC3	90	200-420	380±5	300	45, 39, 190
PVR90K-240-420TC3	90	240-420	380±5	300	45, 39, 190
PVR90K-270-420TC3	90	270-420	380±3	300	45, 39, 190



2-PV-S : Servo type AC Automatic Voltage Regulator

Technical Specifications

- 1- Voltage correction accuracy is ± 2 volt
- 2- Microcontroller intelligent control
- 3- User interface: a. Display (Seven Segments) to show :
 - Input Voltage
 - Output Voltage
 - Over/low Voltage LED b. Over voltage Alarm
 - c. Three push buttons to set the following
 - The output voltage
 - Allowed Error $\pm (1-10)$ volt
 - The maximum allowed output voltage
 - The minimum allowed output voltage
 - Required level of electric motor speed
 - The response time of protection
- 4- High quality carbon brush
- 5- Smoothing regulation of the required Voltage
- 6- Fast response to voltage fluctuations



Catalog Number	Power [kVA]	Input Range [Volt]	Output Accuracy [Volt]	Ship Weight [kg]	Cabinet Size L, W, H[CM]
PVS10K-100-250C1	10	100-250	220±2	67.6	35, 36, 61
PVS10K-100-300C1	10	100-300	220±2	67.6	35, 36, 61
PVS10K-120-250C1	10	120-250	220±2	67.6	35, 36, 61
PVS10K-120-300C1	10	120-300	220±2	67.6	35, 36, 61
PVS10K-140-250C1	10	140-250	220±2	67.6	35, 36, 61
PVS10K-140-300C1	10	140-300	220±2	67.6	35, 36, 61
PVS10K-160-250C1	10	160-250	220±2	67.6	35, 36, 61
PVS10K-160-300C1	10	160-300	220±2	67.6	35, 36, 61
PVS12K-100-250C1	12	100-250	220±2	80	61.5, 35, 37.5
PVS12K-100-300C1	12	100-300	220±2	80	61.5, 35, 37.5
PVS12K-120-250C1	12	120-250	220±2	80	61.5, 35, 37.5
PVS12K-120-300C1	12	120-300	220±2	80	61.5, 35, 37.5
PVS12K-140-250C1	12	140-250	220±2	80	61.5, 35, 37.5
PVS12K-140-300C1	12	140-300	220±2	80	61.5, 35, 37.5
PVS12K-160-250C1	12	160-250	220±2	80	61.5, 35, 37.5
PVS12K-160-300C1	12	160-300	220±2	80	61.5, 35, 37.5
PVS15K-100-250C1	15	100-250	220±2	107	40, 50, 86
PVS15K-100-300C1	15	100-300	220±2	107	40, 50, 86
PVS15K-120-250C1	15	120-250	220±2	107	40, 50, 86
PVS15K-120-300C1	15	120-300	220±2	107	40, 50, 86
PVS15K-140-250C1	15	140-250	220±2	107	40, 50, 86
PVS15K-140-300C1	15	140-300	220±2	107	40, 50, 86
PVS15K-160-250C1	15	160-250	220±2	107	40, 50, 86
PVS15K-160-300C1	15	160-300	220±2	107	40, 50, 86
PVS20K-100-250C1	20	100-250	220±2	130	45, 50, 86
PVS20K-100-300C1	20	100-300	220±2	130	45, 50, 86
PVS20K-120-250C1	20	120-250	220±2	130	45, 50, 86
PVS20K-120-300C1	20	120-300	220±2	130	45, 50, 86
PVS20K-140-250C1	20	140-250	220±2	130	45, 50, 86
PVS20K-140-300C1	20	140-300	220±2	130	45, 50, 86
PVS20K-160-250C1	20	160-250	220±2	130	45, 50, 86
PVS20K-160-300C1	20	160-300	220±2	130	45, 50, 86
PVS25K-100-250C1	25	100-250	220±2	141.5	51, 55, 84
PVS25K-100-300C1	25	100-300	220±2	141.5	51, 55, 84
PVS25K-120-250C1	25	120-250	220±2	141.5	51, 55, 84
PVS25K-120-300C1	25	120-300	220±2	141.5	51, 55, 84
PVS25K-140-250C1	25	140-250	220±2	141.5	51, 55, 84
PVS25K-140-300C1	25	140-300	220±2	141.5	51, 55, 84
PVS25K-160-250C1	25	160-250	220±2	141.5	51, 55, 84
PVS25K-160-300C1	25	160-300	220±2	141.5	51, 55, 84
PVS30K-100-250C1	30	100-250	220±2	176.3	58, 68, 87
PVS30K-100-300C1	30	100-300	220±2	176.3	58, 68, 87
PVS30K-120-250C1	30	120-250	220±2	176.3	58, 68, 87
PVS30K-120-300C1	30	120-300	220±2	176.3	58, 68, 87
PVS30K-140-250C1	30	140-250	220±2	176.3	58, 68, 87
PVS30K-140-300C1	30	140-300	220±2	176.3	58, 68, 87
PVS30K-160-250C1	30	160-250	220±2	176.3	58, 68, 87
PVS30K-160-300C1	30	160-300	220±2	176.3	58, 68, 87

2-PV-S : Servo type AC Automatic Voltage Regulator

PVS35K-100-250C1	35	100-250	220±2	195.7	58, 68, 87
PVS35K-100-300C1	35	100-300	220±2	195.7	58, 68, 87
PVS35K-120-250C1	35	120-250	220±2	195.7	58, 68, 87
PVS35K-120-300C1	35	120-300	220±2	195.7	58, 68, 87
PVS35K-140-250C1	35	140-250	220±2	195.7	58, 68, 87
PVS35K-140-300C1	35	140-300	220±2	195.7	58, 68, 87
PVS35K-160-250C1	35	160-250	220±2	195.7	58, 68, 87
PVS35K-160-300C1	35	160-300	220±2	195.7	58, 68, 87

PVS40K-100-250C1	40	100-250	220±2	224	65, 75, 120
PVS40K-100-300C1	40	100-300	220±2	224	65, 75, 120
PVS40K-120-250C1	40	120-250	220±2	224	65, 75, 120
PVS40K-120-300C1	40	120-300	220±2	224	65, 75, 120
PVS40K-140-250C1	40	140-250	220±2	224	65, 75, 120
PVS40K-140-300C1	40	140-300	220±2	224	65, 75, 120
PVS40K-160-250C1	40	160-250	220±2	224	65, 75, 120
PVS40K-160-300C1	40	160-300	220±2	224	65, 75, 120

PVS45K-100-250C1	45	100-250	220±2	252	65, 75, 120
PVS45K-100-300C1	45	100-300	220±2	252	65, 75, 120
PVS45K-120-250C1	45	120-250	220±2	252	65, 75, 120
PVS45K-120-300C1	45	120-300	220±2	252	65, 75, 120
PVS45K-140-250C1	45	140-250	220±2	252	65, 75, 120
PVS45K-140-300C1	45	140-300	220±2	252	65, 75, 120
PVS45K-160-250C1	45	160-250	220±2	252	65, 75, 120
PVS45K-160-300C1	45	160-300	220±2	252	65, 75, 120

PVS50K-100-250C1	50	100-250	220±2	367	65, 75, 120
PVS50K-100-300C1	50	100-300	220±2	367	65, 75, 120
PVS50K-120-250C1	50	120-250	220±2	367	65, 75, 120
PVS50K-120-300C1	50	120-300	220±2	367	65, 75, 120
PVS50K-140-250C1	50	140-250	220±2	367	65, 75, 120
PVS50K-140-300C1	50	140-300	220±2	367	65, 75, 120
PVS50K-160-250C1	50	160-250	220±2	367	65, 75, 120
PVS50K-160-300C1	50	160-300	220±2	367	65, 75, 120

PVS60K-100-250C1	60	100-250	220±2	440	65, 75, 120
PVS60K-100-300C1	60	100-300	220±2	440	65, 75, 120
PVS60K-120-250C1	60	120-250	220±2	440	65, 75, 120
PVS60K-120-300C1	60	120-300	220±2	440	65, 75, 120
PVS60K-140-250C1	60	140-250	220±2	440	65, 75, 120
PVS60K-140-300C1	60	140-300	220±2	440	65, 75, 120
PVS60K-160-250C1	60	160-250	220±2	440	65, 75, 120
PVS60K-160-300C1	60	160-300	220±2	440	65, 75, 120

PVS75K-100-250C1	75	100-250	220±2	550	65, 75, 120
PVS75K-100-300C1	75	100-300	220±2	550	65, 75, 120
PVS75K-120-250C1	75	120-250	220±2	550	65, 75, 120
PVS75K-120-300C1	75	120-300	220±2	550	65, 75, 120
PVS75K-140-250C1	75	140-250	220±2	550	65, 75, 120
PVS75K-140-300C1	75	140-300	220±2	550	65, 75, 120
PVS75K-160-250C1	75	160-250	220±2	550	65, 75, 120
PVS75K-160-300C1	75	160-300	220±2	550	65, 75, 120

2-PV-S : Servo type AC Automatic Voltage Regulator

Catalog Number	Power [kVA]	Input Range [Volt]	Output Accuracy [Volt]	Ship Weight [kg]	Cabinet Size L, W, H[CM]
PVS30K-170-420C3	30	170-420	380±2	215	44.5, 68.5, 102.5
PVS30K-200-420C3	30	200-420	380±2	215	44.5, 68.5, 102.5
PVS30K-240-420C3	30	240-420	380±2	215	44.5, 68.5, 102.5
PVS30K-270-420C3	30	270-420	380±2	215	44.5, 68.5, 102.5
PVS35K-170-420C3	35	170-420	380±2	231	44.5, 68.5, 102.5
PVS35K-200-420C3	35	200-420	380±2	231	44.5, 68.5, 102.5
PVS35K-240-420C3	35	240-420	380±2	231	44.5, 68.5, 102.5
PVS35K-270-420C3	35	270-420	380±2	231	44.5, 68.5, 102.5
PVS45K-170-420C3	45	170-420	380±2	249	44.5, 68.5, 102.5
PVS45K-200-420C3	45	200-420	380±2	249	44.5, 68.5, 102.5
PVS45K-240-420C3	45	240-420	380±2	249	44.5, 68.5, 102.5
PVS45K-270-420C3	45	270-420	380±2	249	44.5, 68.5, 102.5
PVS60K-170-420TC3	60	170-420	380±2	410	54.5, 103, 131.5
PVS60K-200-420TC3	60	200-420	380±2	410	54.5, 103, 131.5
PVS60K-240-420TC3	60	240-420	380±2	410	54.5, 103, 131.5
PVS60K-270-420TC3	60	270-420	380±2	410	54.5, 103, 131.5
PVS75K-170-420TC3	75	170-420	380±2	440	54.5, 103, 131.5
PVS75K-200-420TC3	75	200-420	380±2	440	54.5, 103, 131.5
PVS75K-240-420TC3	75	240-420	380±2	440	54.5, 103, 131.5
PVS75K-270-420TC3	75	270-420	380±2	440	54.5, 103, 131.5
PVS90K-170-420TC3	90	170-420	380±2	500	54.5, 103, 131.5
PVS90K-200-420TC3	90	200-420	380±2	500	54.5, 103, 131.5
PVS90K-240-420TC3	90	240-420	380±2	500	54.5, 103, 131.5
PVS90K-270-420TC3	90	270-420	380±2	500	54.5, 103, 131.5
PVS100K-170-420TC3	100	170-420	380±2	517	61.5, 114.5, 153
PVS100K-200-420TC3	100	200-420	380±2	517	61.5, 114.5, 153
PVS100K-240-420TC3	100	240-420	380±2	517	61.5, 114.5, 153
PVS100K-270-420TC3	100	270-420	380±2	517	61.5, 114.5, 153
PVS120K-170-420TC3	120	170-420	380±2	550	61.5, 114.5, 153
PVS120K-200-420TC3	120	200-420	380±2	550	61.5, 114.5, 153
PVS120K-240-420TC3	120	240-420	380±2	550	61.5, 114.5, 153
PVS120K-270-420TC3	120	270-420	380±2	550	61.5, 114.5, 153
PVS135K-170-420TC3	135	170-420	380±2	600	61.5, 114.5, 153
PVS135K-200-420TC3	135	200-420	380±2	600	61.5, 114.5, 153
PVS135K-240-420TC3	135	240-420	380±2	600	61.5, 114.5, 153
PVS135K-270-420TC3	135	270-420	380±2	600	61.5, 114.5, 153
PVS150K-170-420TC3	150	170-420	380±2	640	61.5, 114.5, 153
PVS150K-200-420TC3	150	200-420	380±2	640	61.5, 114.5, 153
PVS150K-240-420TC3	150	240-420	380±2	640	61.5, 114.5, 153
PVS150K-270-420TC3	150	270-420	380±2	640	61.5, 114.5, 153
PVS180K-170-420TC3	180	170-420	380±2	768	88.5, 180.5, 132.5
PVS180K-200-420TC3	180	200-420	380±2	768	88.5, 180.5, 132.5
PVS180K-240-420TC3	180	240-420	380±2	768	88.5, 180.5, 132.5
PVS180K-270-420TC3	180	270-420	380±2	768	88.5, 180.5, 132.5

2-PV-S : Servo type AC Automatic Voltage Regulator

PVS225K-170-420TC3	225	170-420	380±2	1056	88.5, 180.5, 132.5
PVS225K-200-420TC3	225	200-420	380±2	1056	88.5, 180.5, 132.5
PVS225K-240-420TC3	225	240-420	380±2	1056	88.5, 180.5, 132.5
PVS225K-270-420TC3	225	270-420	380±2	1056	88.5, 180.5, 132.5
PVS300K-170-420TC3	350	170-420	380±2	2250	220.5, 139.5, 157.5
PVS300K-200-420TC3	350	200-420	380±2	2250	220.5, 139.5, 157.5
PVS300K-240-420TC3	350	240-420	380±2	2250	220.5, 139.5, 157.5
PVS300K-270-420TC3	350	270-420	380±2	2250	220.5, 139.5, 157.5
PVS450K-170-420TC3	500	170-420	380±2	3015	220.5, 139.5, 157.5
PVS450K-200-420TC3	500	200-420	380±2	3015	220.5, 139.5, 157.5
PVS450K-240-420TC3	500	240-420	380±2	3015	220.5, 139.5, 157.5
PVS450K-270-420TC3	500	270-420	380±2	3015	220.5, 139.5, 157.5
PVS600K-170-420TC3	600	170-420	380±2	3320	220.5, 139.5, 157.5
PVS600K-200-420TC3	600	200-420	380±2	3320	220.5, 139.5, 157.5
PVS600K-240-420TC3	600	240-420	380±2	3320	220.5, 139.5, 157.5
PVS600K-270-420TC3	600	270-420	380±2	3320	220.5, 139.5, 157.5
PVS750K-170-420TC3	750	170-420	380±2	3980	240.5, 159, 170
PVS750K-200-420TC3	750	200-420	380±2	3980	240.5, 159, 170
PVS750K-240-420TC3	750	240-420	380±2	3980	240.5, 159, 170
PVS750K-270-420TC3	750	270-420	380±2	3980	240.5, 159, 170
PVS900K-170-420TC3	900	170-420	380±2	4500	240.5, 159, 170
PVS900K-200-420TC3	900	200-420	380±2	4500	240.5, 159, 170
PVS900K-240-420TC3	900	240-420	380±2	4500	240.5, 159, 170
PVS900K-270-420TC3	900	270-420	380±2	4500	240.5, 159, 170
PVS1200K-170-420TC3	1200	170-420	380±2	5000	345, 170, 182
PVS1200K-200-420TC3	1200	200-420	380±2	5000	345, 170, 182
PVS1200K-240-420TC3	1200	240-420	380±2	5000	345, 170, 182
PVS1200K-270-420TC3	1200	270-420	380±2	5000	345, 170, 182
PVS1500K-170-420TC3	1500	170-420	380±2		
PVS1500K-200-420TC3	1500	200-420	380±2		
PVS1500K-240-420TC3	1500	240-420	380±2		
PVS1500K-270-420TC3	1500	270-420	380±2		
PVS2000K-170-420TC3	2000	170-420	380±2		
PVS2000K-200-420TC3	2000	200-420	380±2		
PVS2000K-240-420TC3	2000	240-420	380±2		
PVS2000K-270-420TC3	2000	270-420	380±2		

Technical Specifications

- 1- Rated power rang is from 850 to 7500 VA
- 2- Simple design, reduced size and increased efficiency
- 3- Soft start that protects the appliances form damage
- 4- Display to show input voltage and output voltage and the operation state
- 5- Automatic restart in case of overload current
- 6- Robust construction
- 7- High Efficiency
- 8- Ease to use and maintenance
- 9- Smart Cooling
- 10- Ease performance monitoring
 - Input Voltage
 - Output Votage
 - The current load
 - The regulation stage number
 - Show Voltage fluctuation (HV, LV) when the device is switched off due to the rise/drop over/under of a calibrated value
 - Show the over voltage state (OV)

PV-I Protections

- 1- Protection in case of overload currents and short circuits
- 2- Protection in case of voltage fluctuation
- 3- Protect from the short circuit
- 4- Protection in case of increasing the temperature of the device

PV-I Models Configuration

There are the following settings :

- 1- On/Off switch
- 2- Inverter on/off
- 3- Switch to select UPS or INV
- 4- Time to switch between grid and battery

PV-I Inverter Wiring :

- 1- The red line is for output
- 2- The blue line is for neutral
- 3- The green line is for input
- 4- The right connector is for the negative terminal of battery
- 5- The left connector is for the positive terminals of the battery

3- PV-I : Inverter Type Automatic Voltage Regulator

PV-I Models

Catalog Number	Power [VA]	Battery Input [Volt]	Output Accuracy [Volt]	Ship Weight [kg]	Dimension
PV-IN-850	850	12-24-36 48-72-96	220±1%	14.3	19, 17, 52
PV-IN-1000	1000	12-24-36 48-72-96	220±1%	14.6	19, 17, 52
PV-IN-1500	1500	12-24-36 48-72-96	220±1%	20.5	19, 17, 52
PV-IN-2000	2000	12-24-36 48-72-96	220±1%	25.4	19, 17, 52
PV-IN-2500	2500	12-24-36 48-72-96	220±1%	29.1	24.5, 21.5, 66
PV-IN-3000	3000	12-24-36 48-72-96	220±1%	33.1	24.5, 21.5, 66
PV-IN-4000	4000	12-24-36 48-72-96	220±1%	37	24.5, 21.5, 66
PV-IN-5000	5000	12-24-36 48-72-96	220±1%	40	28.5, 25, 76
PV-IN-6000	6000	12-24-36 48-72-96	220±1%	43.5	28.5, 25, 76
PV-IN-7500	7500	12-24-36 48-72-96	220±1%	50.64	28.5, 25, 76



4- PV-RB : Relay Type Battery Charger (Manual and Automatic)

PV-RB-220 M
Manual Battery Charger

Parameter	Value
Input Voltage	220- 250V
Output Voltage	12, 24, 36,48, 60, 72
Output Current	Up to 50 A
Input Frequency	50 Hz
Warranty	2 Years
Battery Type	General
Charging Cutoff	Manual
Display	Yes: Input Voltage and Output Voltage
Protection	Overload
Others	Suitable for Multiple Batteries charging

4- PV-RB : Relay Type Battery Charger (Manual)

PV-RB-A220 Automatic Battery Charger 220 V

Parameter	Value
Input Voltage	220- 250V
Output Voltage	12, 24, 36,48, 60, 72,84, 96 V
Output Current	Up to 50 A
Input Frequency	50 Hz
Warranty	2 Years
Battery Type	General
Charging Cutoff	Automatic
Display	Yes: Input Voltage and Output Voltage
Protection	Polarity Inverse, Overload
Others	Voltage Floating

4- PV-RB : Relay Type Battery Charger (Automatic)

PV-RB-A130
Automatic Battery Charger 130V

Parameter	Value
Input Voltage	130-250 V
Output Voltage	12, 24, 36,48, 60, 72,84, 96 V
Output Current	Up to 50 A
Input Frequency	50 Hz
Warranty	2 Years
Battery Type	General
Charging Cutoff	Automatic
Display	Yes: Input Voltage and Output Voltage
Protection	Polarity Inverse, Overload
Others	Voltage Floating

4- PV-RB : Relay Type Battery Charger (Solar)

PV-RB-A130

4.PV-RB :Relay Type Battery Charger (Solar)

Model	Voltage	Current
PV-RBS30A-12V	12V	30A
PV-RBS30A-24V	24V	30A
PV-RBS30A-36V	36V	30A
PV-RBS30A-48V	48V	30A
PV-RBS50A-12V	12V	50A
PV-RBS50A-24V	24V	50A
PV-RBS50A-36V	36V	50A
PV-RBS50A-48V	48V	50A
PV-RBS100A-24V	24V	100A
PV-RBS100A-36V	36V	100A
PV-RBS100A-48V	48V	100A

PV-RBS

It's an automatic Battery charging controller for solar panels. The charging starts when the battery charge goes below the lower limits and stops when the battery reaches its upper limit voltage

5- PV-SMB : Switch Mode Battery Charger

Parameter	Value
Input Voltage	150-220 V
Output Voltage	12, 24, 36,48, 60, 72,84, 96 V
Output Current	Up to 50 A
Input Frequency	50 Hz
Warranty	2 Years
Battery Type	General
Charging Cutoff	Automatic
Display	Yes: Input Voltage and Output Voltage
Protection	Polarity Inverse, Overload
Others	Voltage Floating

6- PV-VFP : Voltage Instability Protector

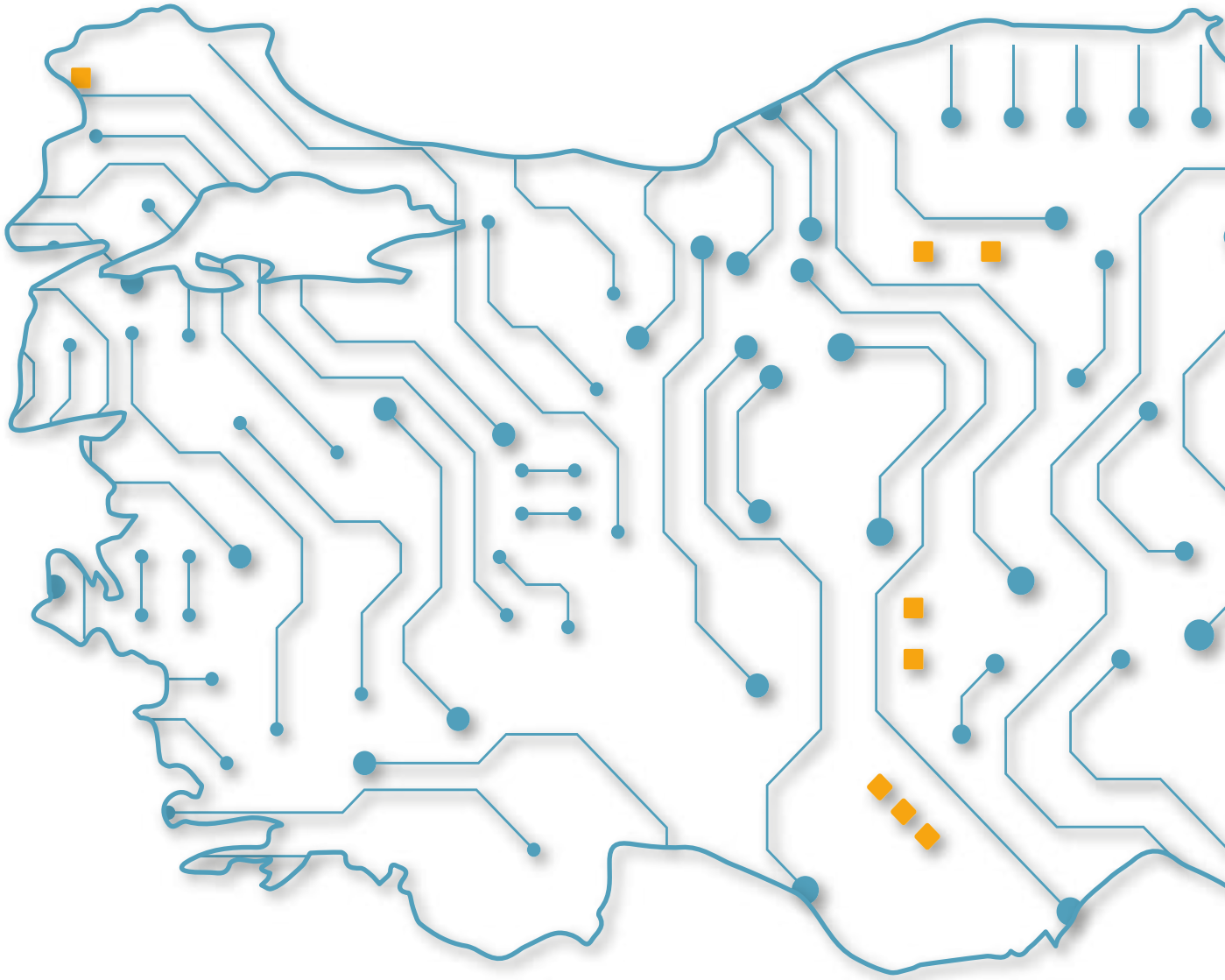
Technical Specifications

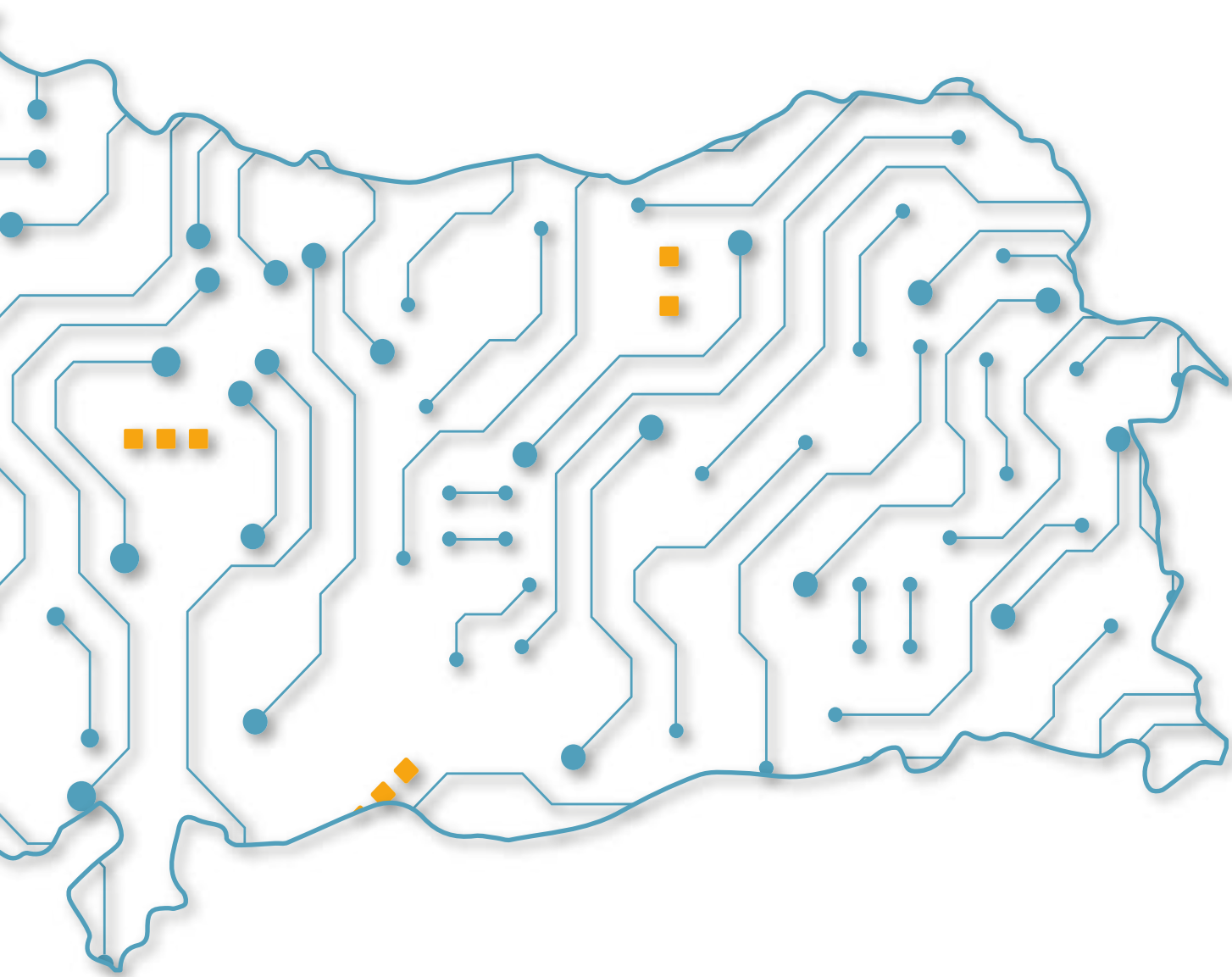
- The protector allows the current to pass if the input voltage is between given boundary's voltage. If the voltage is out the given range the output voltage will be zero after 1.5 second
- In case of input voltage is less than lower boundary, the output voltage returns when the input voltage is greater by 3 volts than the lower boundary according to adjustable time from 0 to 999 second
- In case of input voltage is greater than high boundary, the output voltage returns when the input voltage is less by 5 volts than the high boundary according to adjustable time from 0 to 999 second
- The device lowest boundary is 90 volts, the highest boundary is 450 volts, it can be adjustable according the three bottoms near to the LCD, the first bottom is for program enter and the second to rise the voltage and the third to decrease voltage
- The maximum voltage without damage is 550 volts
- Suitable for both home and industrial applications

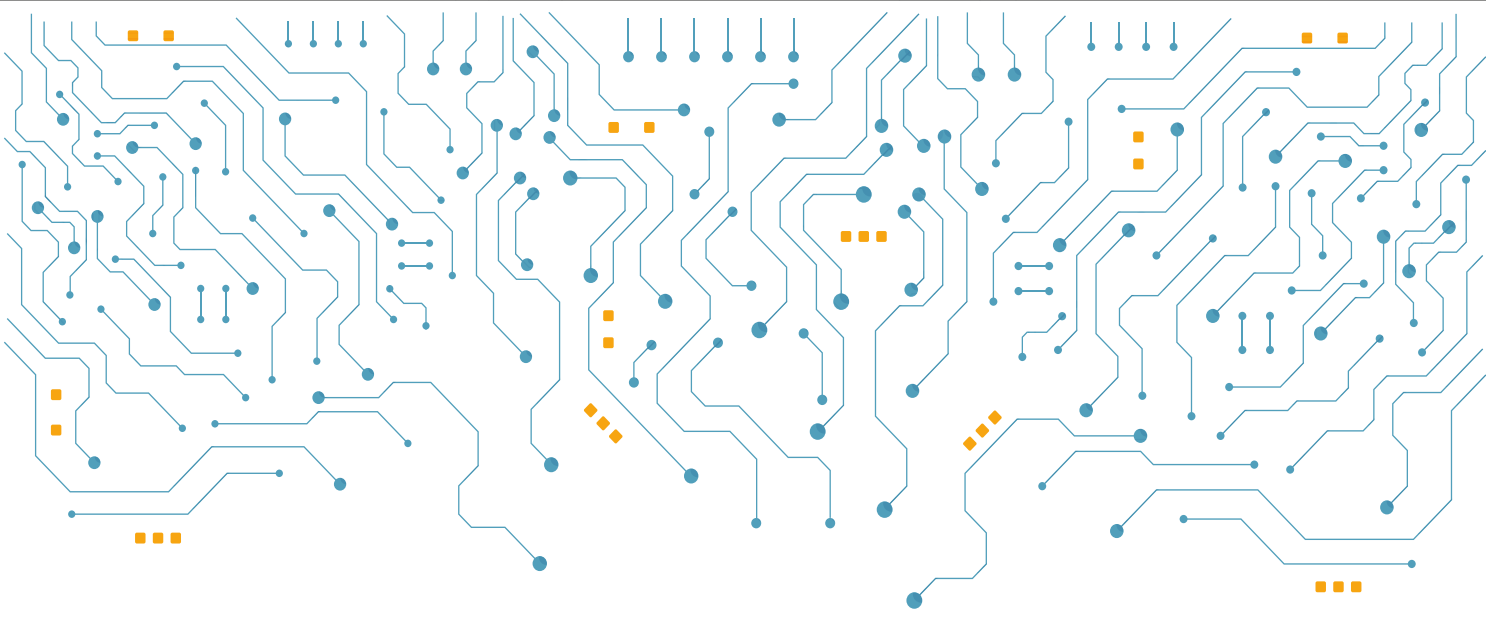
Power rating	15 KW	
Dimensions (mm)	Length	114 mm
	Width	64 mm
	Front Height	185 mm
	Rear Height	164 mm
Pins	Input	Input phase
	N	Neutral
	Output	Output phase
Input	Number of Phases	1
	Maximum Voltage	550 volt
	Voltage Range	90~450 volt
	Current Range	0~100 A
LCD side	Voltage Range	0~600 volt
	Upper Button	Setting
	Middle Button	Voltage Increase
	Lower Button	Voltage Decrease
Calibrated Output Range	Max Value	245volt
	Min Value	175volt



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