

# REOTRON SMP-ESM

19" Plug-In module



## Unique Selling Point

- Very good cos PHI of 0,95
- Power Factor Correction
- Compact dimensions
- Series or parallel connection
- Air or water cooled
- Many options of combinations for different requirements with other REO product ranges

## Description

The REOTRON SMP power supplies are primary switched power supplies with galvanic separation from the input to the output. They can be used as voltage, current or power regulators.

### Operation

The unit can be operated from an internal display, external control signals of 0...+10V, 0(4)...20mA or optionally by a fieldbus interface such as DeviceNet, ProfiBus, CanBus, EtherCAT, EtherNet/IP and ProfiNet protocols.

### Input devices

The device input is designed for connection to a three-phase mains 3 x 400 V, 50/60 Hz. The compliance of EMC standards is guaranteed by an input-sided PFC-mains filter.

### Design

The devices have a compact design in a 19 inch rackmount chassis and can be delivered as a installation ready control cabinet version or as a tabletop unit (lab version). The devices are air- or water-cooled.

### Connection

The SMP's are connected via screw terminals and with cooper terminal buses at high output currents. Like all REO-products, the REOTRON SMP's are also available as customized versions.

### High range of performance

The units can be combined to power supplies with higher ratings by connecting the units in series or parallel.

## Technical Data

- Output voltage : 25 - 600 V
- Output Current : 2 - 600 A
- Output power : 1000 - 15000 W

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## Technical Data

Type	REOTRON SMP-ESM
Input voltage:	3 x 400 V, +/- 10 %, 50/60 Hz
Ripple p-p:	100 mV/200 mV
Setpoint Input:	0...+10 V, DC 0(4)...20 mA, Potentiometer 10 kOhm internal control over display
Actual Output:	0...+10 V, DC 0(4)...20 mA, internal control over display
Interfaces (optional)	DeviceNet, ProfiBus, CanBus, EtherCAT, EtherNet/IP und ProfiNet
Control accuracy:	1% of the nominal value (higher on request)
Rating:	24 V, DC or contact
Protection:	Cabinet installation IP 20
2 x relay status:	Changer 250 V, 1A
Efficiency:	> 85 %
Cos $\Phi$ :	0,95
PFC:	0,94
Operating temperature:	0...+45 °C
Standards:	EN 50178, EN 61000-6-2, EN 61000-6-4

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Type SMP ESM 25-	40	100	200	300	400	500	600
Output power [W]	0...1000	0...2500	0...5000	0...7500	0...10000	0...12500	0...15000
Output voltage [V]	0...25	0...25	0...25	0...25	0...25	0...25	0...25
Output current [A]	0...40	0...100	0...200	0...300	0...400	0...500	0...600
Dimensions [BxTxH]	482x406/3HE	482x406/3HE	482x406/3HE	482x406/3HE	482x406/6HE	482x406/6HE	482x406/6HE

Type SMP ESM 50-	20	50	100	150	200	250	300
Output power [W]	0...1000	0...2500	0...5000	0...7500	0...10000	0...12500	0...15000
Output voltage [V]	0...50	0...50	0...50	0...50	0...50	0...50	0...50
Output current [A]	0...20	0...50	0...100	0...150	0...200	0...250	0...300
Dimensions [BxTxH]	482x406/3HE	482x406/3HE	482x406/3HE	482x406/3HE	482x406/6HE	482x406/6HE	482x406/6HE

Type SMP-ESM 80-	13	31	63	94	125	156	188
Output power [W]	0...1000	0...2500	0...5000	0...7500	0...10000	0...12500	0...15000
Output voltage [V]	0...80	0...80	0...80	0...80	0...80	0...80	0...80
Output current [A]	0...13	0...31	0...63	0...94	0...125	0...156	0...188
Dimensions [BxTxH]	482x406/3HE	482x406/3HE	482x406/3HE	482x406/3HE	482x406/6HE	482x406/6HE	482x406/6HE

Type SMP-ESM 150-	7	17	33	50	67	83	100
Output power [W]	0...1000	0...2500	0...5000	0...7500	0...10000	0...12500	0...15000
Output voltage [V]	0...150	0...150	0...150	0...150	0...150	0...150	0...150
Output current [A]	0...7	0...17	0...33	0...50	0...67	0...83	0...100
Dimensions [BxTxH]	482x406/3HE	482x406/3HE	482x406/3HE	482x406/3HE	482x406/6HE	482x406/6HE	482x406/6HE

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Type SMP-ESM 250-	4	10	20	30	40	50	60
Output power [W]	0...1000	0...2500	0...5000	0...7500	0...10000	0...12500	0...15000
Output voltage [V]	0...250	0...250	0...250	0...250	0...250	0...250	0...250
Output current [A]	0...4	0...10	0...20	0...30	0...40	0...50	0...60
Dimensions [BxTxH]	482x406/3HE	482x406/3HE	482x406/3HE	482x406/3HE	482x406/6HE	482x406/6HE	482x406/6HE

Type SMP-ESM 400-	2,5	6,25	13	19	25	32	37,5
Output power [W]	0...1000	0...2800	0...5200	0...7600	0...10000	0...12800	0...15000
Output voltage [V]	0...400	0...400	0...400	0...400	0...400	0...400	0...400
Output current [A]	0...2,5	0...6,25	0...13	0...19	0...25	0...32	0...37,5
Dimensions [BxTxH]	482x406/3HE	482x406/3HE	482x406/3HE	482x406/6HE	482x406/6HE	482x406/6HE	482x406/6HE

Type SMP-ESM 600-	2	4	8	13	17	21	25
Output power [W]	0...1200	0...2400	0...4800	0...7800	0...10200	0...12600	0...15000
Output voltage [V]	0...600	0...600	0...600	0...600	0...600	0...600	0...600
Output current [A]	0...2	0...4	0...8	0...13	0...17	0...21	0...25
Dimensions [BxTxH]	482x406/3HE	482x406/3HE	482x406/3HE	482x406/6HE	482x406/6HE	482x406/6HE	482x406/6HE

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Dimension drawing

