

DUAL SELECTABLE AC INPUT AC-DC MULTIPLE OUTPUT 250-360 WATTS 19" COMPATIBLE DOUBLE EUROCARD SWITCHING POWER SUPPLIES APS250SU, APS300SU, APS360SU SERIES



FEATURES:

- **DUAL INPUT RANGE USER SELECTABLE**
- **DOUBLE OR TRIPLE CONVERTER ARCHITECTURE**
- **19" COMPATIBLE EUROCARD FORMAT**
- **MEETS THE SAFETY STANDARDS**
- **EMI MEETS CISPR PUB.22 & FCC CLASS A**
- **CE MARKING COMPLIANCE**
- **12HP X 6U X 160MM DOUBLE EUROCARD VMEbus STANDARD**

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: 115Vac/230Vac dual selectable
Input Connector: DIN 41612 for APS250SU/300/360T
IEC320 AC receptacle for APS360SU
Input Frequency: 47-63Hz
Inrush Current: Typ. 65A @230Vac
Input Current: APS250SU 6.0A@115Vac/3.0A@230Vac.
APS300SU 1.2A@115Vac/0.7A@230Vac
APS360SU 6.5A@115Vac/3.5A@230Vac
APS360SUT 6.2A@115Vac/3.0A@230Vac
Dielectric Withstand: Meet IEC950
EMI: Meet CISPR PUB.22 or FCC Class A
Power Fail/OK: Option
Remote (Logic) Inhibit: Available
Hold-up Time: Typ. 20mS
Earth leakage: Typ. 0.3mA @230Vac
Over Temperature Protection(OTP): Option

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart
Output Current: See Ratings Chart
Output Wattage: Typ. 250 Watts for APS250SU
Typ. 300 Watts for APS300SU
Typ. 360 Watts for APS360SU/APS360SUT
Output Connector: DIN 41612 at rear
Line Regulation: Typ. 0.4%
Load Regulation: VO1 typ. $\pm 1.0\%$ (Main)
VO2 typ. $\pm 1.0\%$ (Main)
VO3 typ. $\pm 1.0\%$ (Main)
or typ. $\pm 3.0\%$ (PR) for APS360SUT
Noise & Ripple: Typ. 1% peak to peak
OVP: Built-in at main VO1/VO2/VO3(Latch)
Adjustability: Available at main output VO1,VO2,VO3
Remote Sense: Installed at main VO1
Overload Protection (OLP): Fully protected against
output overload and short circuit
Consult factory for OLP setting

GENERAL SPECIFICATION

Efficiency: Typ. 75-80.0%
Switching Frequency: Typ. 100KHz
Circuit Topology: Forward circuit
APS250SU/APS300SU/APS360SU triple converter
APS360SUT dual converter architecture
Transient Response: Typ. 3mS following a 25% load change
Power Density: 1.58 Watt / Cubic Inch for APS250SU
1.90 Watt / Cubic Inch for APS300SU
2.28 Watt / Cubic Inch for APS360SU & APS360SUT

Operating Temperature: 0 to +50°C at full load
De-rate linearly to +70°C at half load
Storage Temperature: -20 to +85°C
Temperature Coefficient: 0.04% / °C
Cooling: At least 60CFM forced air flow is required
for full load
Construction format: 12HP(TE)x6Ux160mm
19" compatible double Eurocard VMEbus standard
Safety Standard: IEC950/UL1950 Class I

Note: All measurements are at nominal input, full load, and +25°C unless otherwise specified.

OUTPUT VOLTAGE/CURRENT RATINGS CHART

APS250SU Series

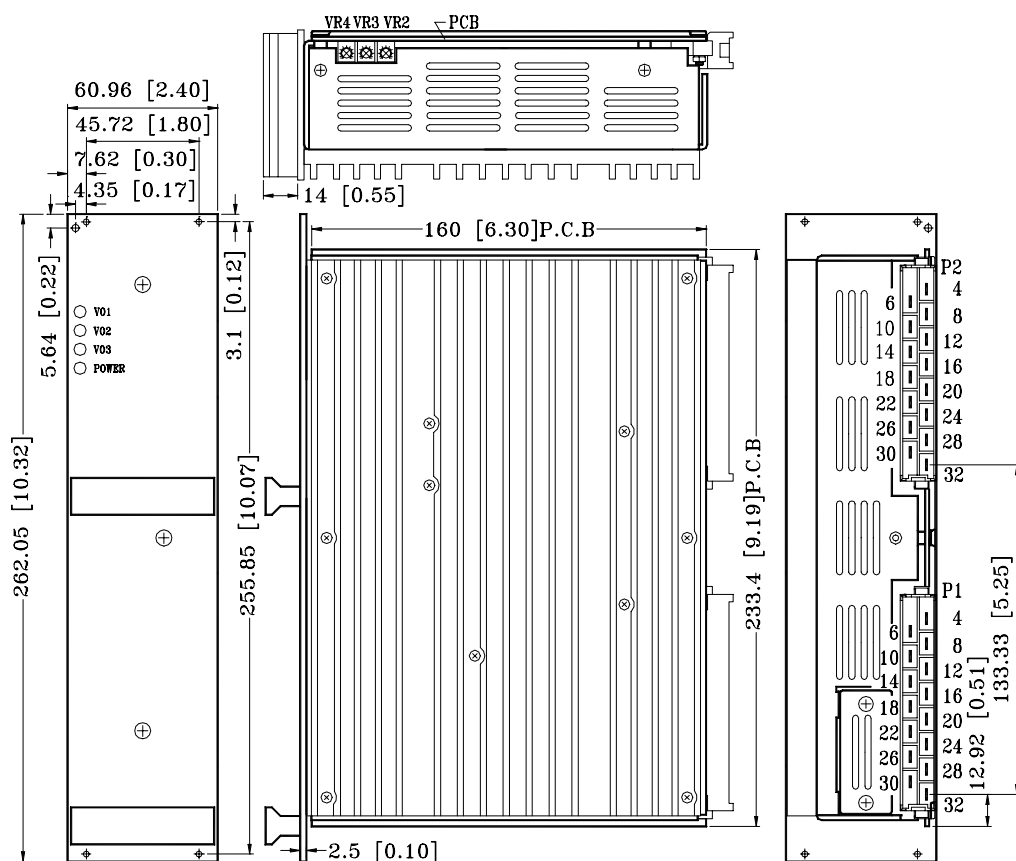
TRIPLE OUTPUT

MODEL NO.	MAIN VO1 ★@#			MAIN VO2 @★			MAIN VO3 @★		
	Typ.	Volt.	Max.	Typ.	Volt.	Max.	Typ.	Volt.	Max.
APS250SU-T050II (APS250SU-32)	25.0A	5.0V	30A	5.0A	12.0V	10A	5.0A	12.0V	10A
APS250SU-T050KK	25.0A	5.0V	30A	4.0A	15.0V	8A	4.0A	15.0V	8A
APS250SU-T050MI	25.0A	5.0V	30A	2.5A	24.0V	5A	5.0A	12.0V	10A
APS250SU-T033II	35.0A	3.3V	40A	5.0A	12.0V	10A	5.0A	12.0V	10A
APS250SU-T033EI	35.0A	3.3V	40A	12.0A	5.0V	20A	5.0A	12.0V	10A
APS250SU-T050DI	25.0A	5.0V	30A	15.0A	3.3V	20A	5.0A	12.0V	10A

Symbol: "★" OVP built-in. "@" Adjustable. "#" Remote sensing.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: APS250SU 2.54Kg (5.58lb)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENTS

ASSIGNMENT	AC INPUT			TRIPLE OUTPUT					ASSORTED SIGNAL			
	AC-L	AC-N	AC-G	+VO1	+VO2	-VO3	DC COM	NC	VO1 S(+)	VO1S(-)	SYS Reset	AC Fail
APS250SU-T	P1-28	P1-30	P1-32	P2-4,6,8,10,12	P2-28,30	P2-16	P2-18,20,22,24,26	P1-8,10,12,24,16,18,20,22,24,26	P2-14	P2-32	P1-6	P1-4

Mating connector: DIN41612-H15 Female

OUTPUT VOLTAGE/CURRENT RATINGS CHART

APS300SU Series

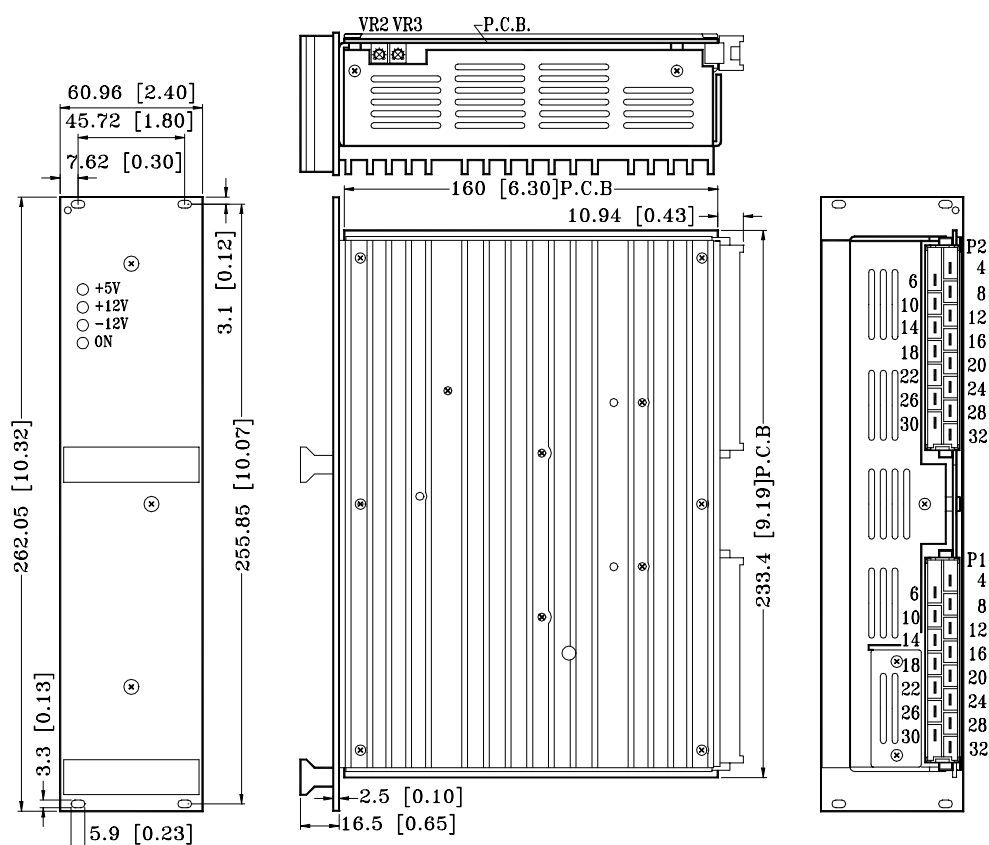
TRIPLE OUTPUT

MODEL NO.	MAIN VO1 ★@#			MAIN VO2 @★			MAIN VO3 @★		
	Typ.	Volt.	Max.	Typ.	Volt.	Max.	Typ.	Volt.	Max.
APS300SU-T050II (APS300SU-32)	36.0A	5.0V	40A	6.0A	12.0V	12A	6.0A	12.0V	12A
APS300SU-T050KK	36.0A	5.0V	40A	5.0A	15.0V	10A	5.0A	15.0V	10A
APS300SU-T050MI	36.0A	5.0V	40A	3.0A	24.0V	6A	6.0A	12.0V	12A
APS300SU-T033II	50.0A	3.3V	55A	6.0A	12.0V	12A	6.0A	12.0V	12A
APS300SU-T033EI	50.0A	3.3V	55A	15.0A	5.0V	--	6.0A	12.0V	12A
APS300SU-T050DI	36.0A	5.0V	40A	18.0A	3.3V	--	6.0A	12.0V	12A

Symbol: "★" OVP built-in. "@" Adjustable. "#" Remote sensing.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: APS300SU 2.75Kg (6.05lb)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENTS

ASSIGNMENT	AC INPUT			TRIPLE OUTPUT					ASSORTED SIGNAL			
	AC-L	AC-N	AC-G	+VO1	+VO2	-VO3	DC COM	NC	VO1 S(+)	VO1S(-)	SYS Reset	AC Fail
APS300SU-T	P1-28	P1-30	P1-32	P2-4,6,8,10,12	P2-28,30	P2-16	P2-18,20,22,24,26	P1-8,10,12,24,16,18,20,22,24,26	P2-14	P2-32	P1-6	P1-4

Mating connector: DIN41612-H15 Female

OUTPUT VOLTAGE/CURRENT RATINGS CHART

APS360SU Series

TRIPLE OUTPUT

MODEL NO.	MAIN VO1 ★@#			MAIN VO2 @★			MAIN VO3 @★		
	Typ.	Volt.	Max.	Typ.	Volt.	Max.	Typ.	Volt.	Max.
APS360SU-T050H	42.0A	5.0V	45A	6.0A	12.0V	12A	6.0A	12.0V	12A
APS360SU-T050KK	42.0A	5.0V	45A	5.0A	15.0V	10A	5.0A	15.0V	10A
APS360SU-T050MI	42.0A	5.0V	45A	3.0A	24.0V	6A	6.0A	12.0V	12A
APS360SU-T033H	55.0A	3.3V	60A	6.0A	12.0V	12A	6.0A	12.0V	12A
APS360SU-T033EI	55.0A	3.3V	60A	15.0A	5.0V	--	6.0A	12.0V	12A
APS360SU-T050DI	42.0A	5.0V	45A	18.0A	3.3V	--	6.0A	12.0V	12A

APS360SUT Series

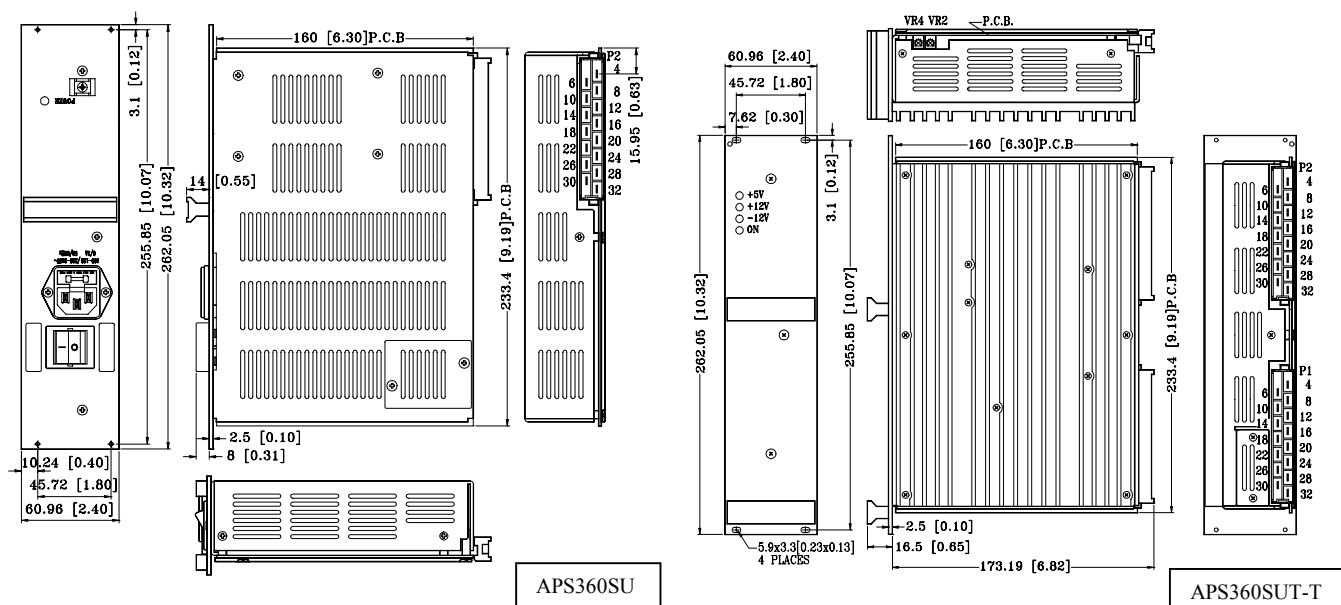
TRIPLE OUTPUT

MODEL NO.	MAIN VO1 ★@#			MAIN VO2 @★			MAIN VO3 ●		
	Typ.	Volt.	Max.	Typ.	Volt.	Max.	Typ.	Volt.	Max.
APS360SUT-T050II (APS360SUT-32)	60.0A	5.0V	70A	2.5 A	12.0V	3.5A	2.0A	12.0V	3.0A
APS360SUT-T050KK	60.0A	5.0V	70A	2.0 A	15.0V	3.0A	2.0A	15.0V	3.0A
APS360SUT-T050MI	60.0A	5.0V	70A	1.25 A	24.0V	2.5A	2.0A	12.0V	3.0A
APS360SUT-T033II	65.0A	3.3V	75A	2.5 A	12.0V	3.5A	2.0A	12.0V	3.0A
APS360SUT-T033EI	65.0A	3.3V	75A	6.0 A	5.0V	--	2.0A	12.0V	3.0A
APS360SUT-T050DI	60.0A	5.0V	70A	8.0 A	3.3V	--	3.0A	12.0V	8.0A

Symbol: "★" OVP built-in. "@" Adjustable. "#" Remote sensing. "●" Post Regulator.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: APS360SU & T 2.80Kg (6.16lb)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENTS

	AC INPUT			TRIPLE OUTPUT					ASSORTED SIGNAL			
ASSIGNMENT	AC-L	AC-N	AC-G	+VO1	+VO2	-VO3	DC COM	NC	VO1 S(+)	VO1S(-)	SYS Reset	AC Fail
APS360SU-T	L	N	G	P2-4,6,8,10,12	P2-28,30	P2-14,16	P2-20,22 24,26,32	P2-18	P2-12	--	--	--
APS360SUT-T	P1-28	P1-30	P1-32	P2-4,6,8,10,12	P2-28,30	P2-16	P2-18,20,22 24,26	P1-8,10,12,24,16 18,20,22,24,26	P2-14	P2-32	P1-6	P1-4

Mating connector: DIN41612-H15 Female