Sorensen XPL Series

30-125 W

Compact, low power/low cost benchtop DC power supplies

18-56 V

1-3.3 A

115

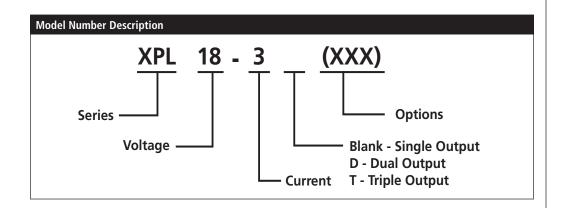
230

- Low Noise
- Excellent line/load regulation
- · Remote sense
- Coarse and fine voltage controls
- Constant voltage or constant current operation with automatic crossover and mode indication
- Individual On/Off switch per output (not including fixed output)
- Variable (1.5V to 5V) Auxiliary Output
- Shrouded socket-compatible with bare wire and shrouded safety plug connections up to 4 mm.

The Sorensen XPL Series provides 30 to 125 watts of programmable linear DC power. The XPL is a compact, high performance, low cost power supply suited for benchtop applications. The XPL Series uses linear regulation for high performance. The XPL Series features excellent line and load regulation with low noise and good transient response. When the switchable remote sense is used, regulation specifications apply at the load. The XPL Series is available in a single, dual and triple-output for benchtop use.



The XPL dual-output model has two independent and isolated outputs each with a 0 to 30 volt, 0 to 2 amps capability and its own On/Off switch. The outputs can be wired in either series or parallel to provide voltages up to 60 volts or currents up to 4 amps. All outputs are intrinsically short-circuit proof, and are protected against external voltages and reverse currents. The XPL triple-output model has the same features as the dualoutput model with an additional variable (1.5V to 5V) auxiliary logic output. Set voltage of the auxilary output can be viewed by a simple touch of a button.



AMETEK Programmable Power 9250 Brown Deer Road San Diego, CA 92121-2267 USA

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XPL Series : Product Specifications¹

Description	Models	18-3	30-1	30-2	30-2D	30-2T	56-1	
Cutput Current							0-56 V	
Dutput Nover	·							
Output Prower 60 W 30 W 60 W 120 W 125 W 60 W 125 W 60 W 00perating Mode Constant voltage or constant current with automatic cross-over and indication Widnage Setting By corase and fine controls Current Setting By single logarithmic control Unine Regulation <0.01% of max. output for a 10% line voltage change Could Regulation <0.01% of max. output for a 10% line voltage change Could Regulation <0.01% of max. output for a 10% line voltage change Could Regulation <0.01% of max. output for a 30% load change Fipple & Noise Could Regulation (20 MHz) Typically < 1 mVms (CV mode) Tornoisent Response <0.01% of max. output for a 90% load change Femperature Coefficient Typically < 1 mVms (CV mode) Tornoisent Response <0.01% of max. output within 50 mV of set level for 90% load change Femperature Coefficient Output Protection Output on Mineral Command Command Voltages of up to 20 V above the rated output voltage. Reverse protection by diode change Femperature Coefficient Output ON lamps. Constant current mode lamps Output Switch Electronic Preset voltage and current displayed when output is off Output Femmins A man terminals on 1 pm m (0.75) pit h Remote Sense Voltage, local or remote by front panel switch Meter Accuracy Voltage 0.3% ± 3 digits Variable <1.5V to >5V by front panel control. Meter Accuracy Voltage 0.3% ± 3 digits Variable <1.5V to >5V by front panel control. Meter Accuracy Voltage 0.3% ± 3 digits Variable <1.5V to >5V by front panel control. Meter Accuracy Voltage 0.3% ± 3 digits Variable <1.5V to >5V by front panel control. Meter Accuracy Voltage 0.3% ± 3 digits Variable <1.5V to >5V by front panel control. Meter Accuracy Voltage 0.3% ± 3 digits Variable <1.5V to >5V by front panel control. Meter Accuracy Voltage 0.5% ± 3 digits Variable <1.5V to >5V by front panel control. Note that the panel c	•			-				
Operating Mode Constant voltage or constant current with automatic cross-over and indication Voltage Setting By coarse and fine controls Current Setting By single logarithmic control Line Regulation < 0.01% of max, output for a 10% line voltage change Lood Regulation < 0.01% of max, output for a 10% line voltage change Lough Equipment Typically < 5 mΩ in constant voltage mode. Typically > 50 kΩ in constant current mode Ripple & Noise (20 MHz) Typically < 1 mVms (V mode) Transient Response < 20 µs to within 50 mV of set level for 90% load change Temperature Coefficient Typically < 100 ppm/**C Output Protection Output With Status Indication Output Not lamps. Constant current mode lamps Output Protection Output May Indicate a memory of the protection of the protectio	•							
Source Setting By coarse and fine controls						125 W	00 VV	
Current Setting By single logarithmic control Line Regulation < 0.01% of max. output for a 10% line voltage change			current wi	tn automatic cross-over an	a indication			
Line Regulation								
Load Regulation < 0.01% of max. output for a 90% load change								
Output Impedance Typically < 5 mΩ in constant voltge mode. Typically > 50 kΩ in constant current mode Kipple & Noise (20 MHz) Typically < 1 m/mms (CV mode) Transient Response < 20 µs to within 50 mV of set level for 90% load change Temperature Coefficient Typically < 100 ppm/°C Output Protection Outputs will withstand forward voltages of up to 20 V above the rated output voltage. Reverse protection by diode clamp for current up in 3 A. Status Indication Output to Mission (Preset voltage and current displayed when output is off Output Exwitch Electronic. Preset voltage and current displayed when output is off Output Exminals 4 mm terminals on 19 mm (0.75°) pitch Meter Voltage, local or remote by front panel switch Meter Dual 4 digit meters with 14mm LEDs. Read rate 4Hz. Meter Resolutions 10 mV, 1 mA Meter Accuracy Current 0.5% ± 3 digits Auxiliary Logic Output (XPI30-2T only) Voltage Variable <1.5V to >SV by front panel control. Meter Accuracy Current Quiter Voltage Accuracy 0.3% ± 1 digit Auxiliary Logic Output (XPI30-2T only) Voltage Variable <1.5V to >SV by front panel control. Meter Voltage Accuracy 0.3% ± 1 digit 1.1 di								
Ripple & Noise (20 MHz) Typically < 1 mVms (CV mode) Transient Response								
Transient Response		Typically $<$ 5 m Ω in constant voltge mode. Typically $>$ 50 k Ω in constant current mode						
Temperature Coefficient Typically < 100 ppm/"C Output Protection Output Will withstand forward voltages of up to 20 V above the rated output voltage. Reverse protection by diode clamp for current up to 3 A. Output Switch Electronic. Preset voltage and current displayed when output is off Output Terminals 4 mm terminals on 19 mm (0.75") pitch Remote Sense Voltage, local or remote by front panel switch Meter Dual 4 digit meters with 14mm LEDs. Read rate 4Hz. Meter Resolutions 10 mV, 1 mA Meter Accuracy Voltage Meter Accuracy Voltage Output (XPL30-27 only) Voltage Volt								
Output Protection Outputs will withstand forward voltages of up to 20 V above the rated output voltage. Reverse protection by diode clamp for current up to 3 A. Output ON lamps. Constant current mode lamps Output Switch Electronic. Preset voltage and current displayed when output is off Output Terminals 4 mm terminals on 19 mm (0.75") pitch Remote Sense Voltage, local or remote by front panel switch Meter Resolutions 10 mV, 1 mA Meter Accuracy Voltage 0.3% ± 3 digits Meter Accuracy Current 0.6% ± 3 digits Auxiliary Logic Output (XPL30-2T only) Meter Voltage Accuracy 0.3% ± 1 digit Output Protection Output will withstand up to 7V forward voltage. Diode clamp reverse protection for currents up 10. Ripple & Noise (20MHz Bandwidth) 10 add Regulation 10 add Regulation 10 add Regulation 10 add Regulation 115 V or 230 Vac ±10% (adjustable internally, option HV for factory set 230 Vac input) Installation Category II Power Consumption AC Input 115 V or 230 Vac ±10% (adjustable internally, option HV for factory set 230 Vac input) Installation Category II Power Consumption AC Input 115 V or 230 Vac ±10% (adjustable internally, option HV for factory set 230 Vac input) Installation Category II Power Consumption Solva (APL 30-2), XPL 18-3, XPL 56-1) 320 VA (XPL 30-2), XPL 18-3, XPL 56-1) 40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Cooling Silent fan-less convection cooling Safety Complies with EN61010-1 EMC Complies with EN61010-1 Compl	Transient Response	< 20 μs to within 50 mV of set level for 90% load change						
for current up to 3 A. Output ON lamps. Constant current mode lamps Output Switch Electronic. Preset voltage and current displayed when output is off Output Terminals 4 mm terminals on 19 mm (0.75") pitch Remote Sense Voltage, local or remote by front panel switch Meter Dual 4 digit meters with 14mm LEDs. Read rate 4Hz. Meter Resolutions Meter Accuracy Voltage 0.3% ± 3 digits Auxiliary Logic Output (XPL30-2T only) Meter Accuracy Current 0.6% ± 3 digits Voltage Variable <1.5V to >5V by front panel control. Meter Voltage Accuracy 0.3% ± 1 digit Meter Voltage Auxiliary Logic Output (XPL30-2T only) Auxiliary Logic Output (XP	Temperature Coefficient	Typically < 100 ppm/°C						
Output Switch Electronic Preset voltage and current displayed when output is off Output Terminals 4 mm terminals on 19 mm (0.75") pitch Remote Sense Voltage, local or remote by front panel switch Meter Dual 4 digit meters with 14mm LEDs. Read rate 4Hz. Meter Resolutions 10 mV, 1 mA Meter Accuracy Voltage 0.3% ± 3 digits Meter Accuracy Current 0.6% ± 3 digits Auxiliary Logic Output (XPL30-2T only) Voltage Voltage Variable <1.5V to >5V by front panel control. Meter Voltage Accuracy 0.3% ± 1 digit Current Limit 2 Am minimum Output Protection Output will withstand up to 7V forward voltage. Diode clamp reverse protection for currents up to 3A Ripple & Noise (20MHz Bandwidth) 1 Load Regulation 23% for 90% load change Line Regulation 20.2% for a 10% line voltage change. Status Indication VRPL 30-2. XPL 18-3. XPL 56-1) 320 VA (XPL 30-1) 160 VA (XPL 30-2). XPL 18-3. XPL 56-1) 320 VA (XPL 30-2). XPL 18-3. XPL 56-1) 320 VA (XPL 30-2). XPL 18-3. XPL 56-1) 50 Gas Range 40 of 0°C, 20% to 80% RH Storage Range 40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Cooling Silent fan -less convection cooling Safety Complies with EN6130-6 Dimensions (H x W x D) 63 x 55 x 11.6" (160 x 140 x 295 mm) (XPL 30-2). XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2). XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2). XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2). XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2). XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2). XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2). XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2). XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2). XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2). XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2). XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2). XPL	Output Protection							
Output Terminals 4 mm terminals on 19 mm (0.75*) pitch Remote Sense Voltage, local or remote by front panel switch Meter Dual 4 digit meters with 14mm LEDs. Read rate 4Hz. Meter Resolutions 10 mV, 1 mA Meter Accuracy Voltage 0.3% ± 3 digits Meter Accuracy Current 0.6% ± 3 digits Auxiliary Logic Output (XPL30-2T only) Voltage Variable <1.5V to >5V by front panel control. Meter Voltage Accuracy 0.3% ± 1 digit Current Limit 2A minimum Output Protection Output will withstand up to 7V forward voltage. Diode clamp reverse protection for currents up to 3A. Ripple & Noise (20MHz Bandwidth) Typically <5mVrms, <15mVpk-pk (CV mode) Load Regulation <3% for 90% load change Line Regulation <4.02% for a 10% line voltage change. Status Indication UNREG lamp. AC Input 15 V or 230 Vac ±10% (adjustable internally, option HV for factory set 230 Vac input) Installation Category II Power Consumption 85 VA (XPL 30-1) 160 VA (XPL 30-2, XPL 18-3, XPL 56-1) 220 VA (XPL 30-2, XPL 18-3, VEL 56-1) 220 VA (XPL 30-2, XPL 18-3, VEL 56-1) 220 VA (XPL 30-2, 20% to 80% RH Storage Range -40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Cooling Silent fan-less convection cooling Safety Complies with ENG1010-1 EMC Complies with ENG1010-1 EMC Complies with ENG1010-1 EMC Complies with ENG102-2, XPL 18-3 XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-1, XPL30-2, XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2, XPL 18-3, XPL 56-1) 16.5 ib (7.5 kg) (XPL 30-2, XPL 18-3 XPL 56-1) 16.5 ib (7.5 kg) (XPL 30-2, XPL 18-3 XPL 56-1) 16.5 ib (7.5 kg) (XPL 30-2, XPL 18-3 XPL 56-1)	Status Indication	Ouptut ON lamps. Constant c	urrent mod	le lamps				
Remote Sense Voltage, local or remote by front panel switch Meter Dual 4 digit meters with 14mm LEDs. Read rate 4Hz. Meter Accuracy Voltage 0.3% ± 3 digits Meter Accuracy Current 0.6% ± 3 digits Voltage Variable <1.5V to >5V by front panel control. Meter Voltage Accuracy (Dutput (XPL30-2T only)) Meter Voltage Accuracy 0.3% ± 1 digit Current Limit 2 A minimum Output Protection Unity With Withstand up to 7V forward voltage. Diode clamp reverse protection for currents up to 3A Ripple & Noise (20MHz Bandwidth) Typically <5mVrms, <15mVpk-pk (CV mode) Load Regulation <3% for 90% load change Lime Regulation VONEG lamp. Status Indication UNREG lamp. AC Input 115 V or 230 Vac ±10% (adjustable internally, option HV for factory set 230 Vac input) Installation Category II 85 VA (XPL 30-1) 150 VA (XPL 30-2, XPL 18-3, XPL 56-1) 320 VA (XPL 30-2, XPL 18-3, XPL 56-1) 320 VA (XPL 30-2, XPL 30-2-T) Operating Range 5 to 40°C, 20% to 80% RH Storage Range -40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Cooling Silent fan-less convection cooling Safety Complies with EN61326 Dimensions (H x W x D) 6.3 x \$5.5 x 11.6" (160 x 140 x 295 mm) (XPL 30-1, XPL30-2, XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 140 x 295 mm) (XPL 30-1, XPL30-2, XPL 18-3, XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2, XPL 18-3 XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2, XPL 18-3 XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2, XPL 18-3 XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2, XPL 18-3 XPL 56-1)	Output Switch	Electronic. Preset voltage and	d current di	splayed when output is off				
Meter Dual 4 digit meters with 14mm LEDs. Read rate 4Hz. Meter Resolutions 10 mV, 1 mA Meter Accuracy Voltage 0.3% ± 3 digits Meter Accuracy Current 0.6% ± 3 digits Auxiliary Logic Output (XPL30-2T only) Voltage Variable <1.5V to >5V by front panel control. Meter Voltage Accuracy 0.3% ± 1 digit Current Limit 2A minimum Output Protection Output will withstand up to 7V forward voltage. Diode clamp reverse protection for currents up to 3A. Ripple & Noise (20MHz Bandwidth) Typically <5mVms, <15mVpk-pk (CV mode) Load Regulation <3% for 90% load change Line Regulation <0.2% for a 10% line voltage change. Status Indication UNREG lamp. AC Input 115 Y or 230 Vac ±10% (adjustable internally, option HV for factory set 230 Vac input) Installation Category II Power Consumption 85 VA (XPL 30-1) 160 VA (XPL 30-2) XPL 30-2T) Operating Range 5 to 40°C , 20% to 80% RH Storage Range -40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Exit Complies with EN61010-1 EMC Complies with EN61026	Output Terminals	4 mm terminals on 19 mm (0	.75") pitch					
Meter Resolutions 10 mV, 1 mA Meter Accuracy Voltage 0.3% ± 3 digits Meter Accuracy Current 0.6% ± 3 digits Auxiliary Logic Output (XPL30-2T only) Voltage Variable < 1.5V to >5V by front panel control. Meter Voltage Accuracy 0.3% ± 1 digit Current Limit 24 minimum Output Protection Output will withstand up to 7V forward voltage. Diode clamp reverse protection for currents up to 3A Ripple & Noise (20MHz Bandwidth) Typically <5mVms, <15mVpk-pk (CV mode)	Remote Sense	Voltage, local or remote by fro	ont panel s	witch				
Meter Accuracy Voltage 0.3% ± 3 digits Meter Accuracy Current 0.6% ± 3 digits Auxillary Logic Output (XPL30-2T only) Voltage Variable <1.5V to >5V by front panel control. Meter Voltage Accuracy 0.3% ± 1 digit Current Limit 2A minimum Output Protection Output will withstand up to 7V forward voltage. Diode clamp reverse protection for currents up to 3A Ripple & Noise (20MHz Bandwidth) Typically <5mVrms, <15mVpk-pk (CV mode)	Meter	Dual 4 digit meters with 14m	m LEDs. Re	ead rate 4Hz.				
Meter Accuracy Current Auxiliary Logic Output (XPL30-2T only) Voltage Meter Voltage Accuracy Current Limit Output Protection Output will withstand up to 7V forward voltage. Diode clamp reverse protection for currents up to 3A Ripple & Noise (20MHz Bandwidth) Load Regulation Line Regulation Status Indication VNREG lamp. AC Input 115 V or 230 Vac ±10% (adjustable internally, option HV for factory set 230 Vac input) Installation Category II 85 VA (XPL 30-1) 160 VA (XPL 30-2), XPL 18-3, XPL 56-1) 320 VA (XPL 30-2D, XPL 30-2T) Operating Range 5 to 40°C, 20% to 80% RH Storage Range -40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Environmental Cooling Silent fan-less convection cooling Safety Complies with EN61326 Dimensions (H x W x D) 6.3 x 5.5 x 11.6" (160 x 140 x 295 mm) (XPL 30-12, XPL 18-3, XPL 56-1) 9.7 lb (4.4 kg) (XPL 30-1) 9.7 lb (4.4 kg) (XPL 30-1) 9.7 lb (4.4 kg) (XPL 30-2), XPL 18-3 XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2D, XPL 30-2D, XPL 30-2D) Load Required (Accuracy	Meter Resolutions	10 mV, 1 mA						
Meter Accuracy Current Auxiliary Logic Output (XPL30-2T only) Voltage Meter Voltage Accuracy Current Limit Output Protection Output will withstand up to 7V forward voltage. Diode clamp reverse protection for currents up to 3A Ripple & Noise (20MHz Bandwidth) Load Regulation Line Regulation Status Indication VNREG lamp. AC Input 115 V or 230 Vac ±10% (adjustable internally, option HV for factory set 230 Vac input) Installation Category II 85 VA (XPL 30-1) 160 VA (XPL 30-2), XPL 18-3, XPL 56-1) 320 VA (XPL 30-2D, XPL 30-2T) Operating Range 5 to 40°C, 20% to 80% RH Storage Range -40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Environmental Cooling Silent fan-less convection cooling Safety Complies with EN61326 Dimensions (H x W x D) 6.3 x 5.5 x 11.6" (160 x 140 x 295 mm) (XPL 30-12, XPL 18-3, XPL 56-1) 9.7 lb (4.4 kg) (XPL 30-1) 9.7 lb (4.4 kg) (XPL 30-1) 9.7 lb (4.4 kg) (XPL 30-2), XPL 18-3 XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2D, XPL 30-2D, XPL 30-2D) Load Required (Accuracy	Meter Accuracy Voltage							
Auxiliary Logic Output (XPL30-2T only) Voltage	<u>`</u>	0.6% ± 3 digits						
Meter Voltage Accuracy O.3% ± 1 digit Current Limit 2 A minimum Output Protection Currents up to 3A Ripple & Noise (20MHz Bandwidth) Typically <5mVrms, <15mVpk-pk (CV mode) Load Regulation Line Regulation Line Regulation Status Indication UNREG lamp. AC Input 115 V or 230 Vac ±10% (adjustable internally, option HV for factory set 230 Vac input) Installation Category II 85 VA (XPL 30-1) 160 VA (XPL 30-1), XPL 18-3, XPL 56-1) 320 VA (XPL 30-1), XPL 30-2D, XPL 30-2T) Operating Range 5 to 40°C , 20% to 80% RH Storage Range - 40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Cooling Silent fan-less convection cooling Safety Complies with EN61010-1 EMC Complies with EN61326 Dimensions (H x W x D) 6.3 x 5.5 x 11.6" (160 x 260 x 295 mm) (XPL 30-1, XPL 30-2T) 16.5 lb (7.5 kg) (XPL 30-2D, XPL 30-2T) Weight 7.5 lb (3.4 kg) (XPL 30-1) 16.5 lb (7.5 kg) (XPL 30-2D, XPL 30-2T)	•		1	Variable <1 EV to > EV by	front nanal control			
Current Limit 2A minimum Output Protection Output will withstand up to 7V forward voltage. Diode clamp reverse protection for currents up to 3A Ripple & Noise (20MHz Bandwidth) Typically <5mVrms, <15mVpk-pk (CV mode) Load Regulation <3% for 90% load change Line Regulation <0.2% for a 10% line voltage change. Status Indication UNREG lamp. AC Input 115 V or 230 Vac ±10% (adjustable internally, option HV for factory set 230 Vac input) Installation Category II Power Consumption 85 VA (XPL 30-1) 160 VA (XPL 30-2, XPL 18-3, XPL 56-1) 320 VA (XPL 30-2D, XPL 30-2T) Operating Range 5 to 40°C , 20% to 80% RH Storage Range -40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Cooling Silent fan-less convection cooling Safety Complies with EN61010-1 EMC Complies with EN61010-1 Complies with EN61326 Dimensions (H x W x D) 6.3 x 5.5 x 11.6" (160 x 140 x 295 mm) (XPL 30-2D, XPL 30-2T) Weight 7.5 b (3.4 kg) (XPL 30-1) 9.7 lb (4.4 kg) (XPL 30-2), XPL 18-3 XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2D, XPL 30-2T)	, , , , , , , , , , , , , , , , , , , ,	l — -		·	front paner control.			
Output Protection Ripple & Noise (20MHz Bandwidth) Ripple & Noise (20MHz Bandwidth) Load Regulation Line Regulation Status Indication VINREG Iamp. AC Input 115 V or 230 Vac ±10% (adjustable internally, option HV for factory set 230 Vac input) Installation Category II 85 VA (XPL 30-1) 160 VA (XPL 30-2), XPL 18-3, XPL 56-1) 320 VA (XPL 30-2D, XPL 30-2T) Operating Range 5 to 40°C, 20% to 80% RH Storage Range -40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Conplies with EN61010-1 EMC Complies with EN61010-1 EMC Complies with EN61326 Dimensions (H x W x D) 6.3 x 5.5 x 11.6" (160 x 140 x 295 mm) (XPL 30-1, XPL 30-2T) Weight 7.5 lb (3.4 kg) (XPL 30-1) 9.7 lb (4.4 kg) (XPL 30-2), XPL 18-3 XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2D, XPL 30-2T)		l — , , , ,						
Ripple & Noise (20MHz Bandwidth) Typically <5mVrms, <15mVpk-pk (CV mode) Load Regulation				Output will withstand up	to 7V forward voltage.	Diode clamp reverse p	rotection for	
Load Regulation		Dinale 9 Maios (20MHz Don	(حلفاه ثريباء		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
Line Regulation		- ''	awiatn)	·· ·				
Status Indication UNREG lamp. AC Input 115 V or 230 Vac ±10% (adjustable internally, option HV for factory set 230 Vac input) Installation Category II 85 VA (XPL 30-1) 160 VA (XPL 30-2, XPL 18-3, XPL 56-1) 320 VA (XPL 30-2D, XPL 30-2T) Operating Range 5 to 40°C , 20% to 80% RH Storage Range - 40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Cooling Silent fan-less convection cooling Safety Complies with EN61010-1 EMC Complies with EN61326 Dimensions (H x W x D) 6.3 x 5.5 x 11.6" (160 x 140 x 295 mm) (XPL 30-1, XPL30-2, XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2D, XPL 30-2T) Weight 7.5 lb (3.4 kg) (XPL 30-1) 9.7 lb (4.4 kg) (XPL30-2, XPL 18-3 XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2D, XPL 30-2T)		l — — — — — — — — — — — — — — — — — — —						
AC Input 115 V or 230 Vac ±10% (adjustable internally, option HV for factory set 230 Vac input) Installation Category II 85 VA (XPL 30-1) 160 VA (XPL 30-2, XPL 18-3, XPL 56-1) 320 VA (XPL 30-2D, XPL 30-2T) Operating Range 5 to 40°C , 20% to 80% RH Storage Range - 40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Cooling Silent fan-less convection cooling Safety Complies with EN61010-1 EMC Complies with EN61326 Dimensions (H x W x D) 6.3 x 5.5 x 11.6" (160 x 140 x 295 mm) (XPL 30-1, XPL30-2, XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2D, XPL 30-2T) Weight 7.5 lb (3.4 kg) (XPL 30-1) 9.7 lb (4.4 kg) (XPL30-1) 9.7 lb (4.4 kg) (XPL30-2D, XPL 18-3 XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2D, XPL 30-2T)		l —			age change.			
Power Consumption 85 VA (XPL 30-1) 160 VA (XPL 30-2, XPL 18-3, XPL 56-1) 320 VA (XPL 30-2D, XPL 30-2T) Operating Range 5 to 40°C , 20% to 80% RH Storage Range - 40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Cooling Silent fan-less convection cooling Safety Complies with EN61010-1 EMC Complies with EN61326 Dimensions (H x W x D) 6.3 x 5.5 x 11.6" (160 x 140 x 295 mm) (XPL 30-1, XPL30-2, XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2D, XPL 30-2T) Weight 7.5 lb (3.4 kg) (XPL 30-1) 9.7 lb (4.4 kg) (XPL30-2, XPL 18-3 XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2D, XPL 30-2T)	A.C. Immuse			<u>'</u>	220 Ve - '1' !	etelletien Cotesses !!		
160 VA (XPL 30-2, XPL 18-3, XPL 56-1) 320 VA (XPL 30-2D, XPL 30-2T) Operating Range 5 to 40°C , 20% to 80% RH Storage Range - 40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Cooling Silent fan-less convection cooling Safety Complies with EN61010-1 EMC Complies with EN61326 Dimensions (H x W x D) 6.3 x 5.5 x 11.6" (160 x 140 x 295 mm) (XPL 30-1, XPL30-2, XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2D, XPL 30-2T) Weight 7.5 lb (3.4 kg) (XPL 30-1) 9.7 lb (4.4 kg) (XPL30-2, XPL 18-3 XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2D, XPL 30-2T)	<u>'</u>		istable inte	rnally, option HV for factor	y set 230 Vac input) In:	stallation Category II		
Operating Range 5 to 40°C , 20% to 80% RH Storage Range - 40 to 70°C Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Cooling Silent fan-less convection cooling Safety Complies with EN61010-1 EMC Complies with EN61326 Dimensions (H x W x D) 6.3 x 5.5 x 11.6" (160 x 140 x 295 mm) (XPL 30-1, XPL30-2, XPL 18-3, XPL 56-1) (6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2D, XPL 30-2T) Weight 7.5 lb (3.4 kg) (XPL 30-1) (XPL30-2, XPL 18-3 XPL 56-1) (16.5 lb (7.5 kg) (XPL30-2, XPL 18-3 XPL 56-1) (16.5 lb (7.5 kg) (XPL30-2D, XPL 30-2T)	Power Consumption	160 VA (XPL 30-2, XPL 18-3, XPL 56-1)						
Storage Range	Operating Range	5 to 40°C , 20% to 80% RH						
Environmental Indoor use at altitudes to 2000 m, Pollution Degree 2 Cooling Silent fan-less convection cooling Safety Complies with EN61010-1 EMC Complies with EN61326 Dimensions (H x W x D) 6.3 x 5.5 x 11.6" (160 x 140 x 295 mm) (XPL 30-1, XPL30-2, XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2D, XPL 30-2T) Weight 7.5 lb (3.4 kg) (XPL 30-1) 9.7 lb (4.4 kg) (XPL30-2, XPL 18-3 XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2D, XPL 30-2T)	Storage Range	- 40 to 70°C						
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EMC Complies with EN61326 Dimensions (H x W x D) 6.3 x 5.5 x 11.6" (160 x 140 x 295 mm) (XPL 30-1, XPL30-2, XPL 18-3, XPL 56-1) 6.3 x 10.2 x 11.6" (160 x 260 x 295 mm) (XPL 30-2D, XPL 30-2T) Weight 7.5 lb (3.4 kg) (XPL 30-1) 9.7 lb (4.4 kg) (XPL30-2, XPL 18-3 XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2T)								
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Weight 7.5 lb (3.4 kg) (XPL 30-1) 9.7 lb (4.4 kg) (XPL30-2, XPL 18-3 XPL 56-1) 16.5 lb (7.5 kg) (XPL 30-2T)	Dimensions (H x W x D)	6.3 x 5.5 x 11.6" (160 x 140 x			8-3, XPL 56-1)			
Approvals CE-marked units meet: EN61010-1 and EN61326	Weight	9.7 lb (4.4 kg) (XPL30-2, XPL 18-3 XPL 56-1)						
	Approvals	CE-marked units meet: EN610	CE-marked units meet: EN61010-1 and EN61326					
phone	Options							