Programmable DC Power Supply
PS60-55

Technical Specifications

	PS60-55
Output Voltage	60 V
Output Current	55 A
Rated Power	3300 Watts
Efficiency at 230 V, full load	86%
Constant Voltage Mode	
Load regulation 0 ~ 100%	12 mV
Line Regulation	6 mV
Ripple: BW= 5Hz~1MHz	7 mVrms
Ripple: 20 MHz	50 mVpp
Constant Current Mode	
Load regulation 0 ~ 100 %	12 mA
Line Regulation	5 mA
Ripple: BW=5 Hz ~ 1MHz	100 mArms
Remote sense drop	2 V typically
Programming Speed	
Rise time (10% to 90%) into resistive load	
Time 100% load	150 ms
Fall time (90% to 10%) into resistive load	

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Time 100% load	150 ms
Time No load	900 ms
Recovery Time	
Recovery within	300 mV
time @ 50 – 100 % load step	<1ms
max deviation @ 230 V mains	400 mV
Temperature Coefficients	CV : 50 ppm/℃ CC : 100 ppm/℃ after 30 min of warm up time and during 8 hrs
Output Stability	CV : 500 ppm, CC : 500 ppm, after 30 min of warm up time and during 8 hrs
Analog Programing (Rear panel 25 pin D connector)	
Voltage Programming	V : 0 ~ 5 V Accuracy : ± 0.5 % of Vout rated, Input impedance : 1 MΩ I : 0 ~ 5 V (user selectable), Accuracy : ± 1 % of Iout rated Input impedance : 1 MΩ
Monitoring	V : 0 ~ 5 V / 0 ~ 10 V (user selectable), Accuracy : ±1 % output impedance : 150 Ω / 4 mA max I : 0 ~ 5 V (user selectable), Accuracy : ±1 % Output impedance : 150 Ω / 4 mA max
V reference	5.1 V ± 15 mV
Status outputs	Power Supply : OK = Logic 1 (High), AC Fail = Logic 0 (Low), DC Fail : Logic 0 (low) for DC fail by ± 5% of set value, CV / CC Status : CV = Logic 0 / CC = Logic 1 Interlock : Dry contact, Short = Power Supply Enabled, Open = Power Supply Disabled DC ON Status : ON = Logic 1, OFF= Logic 0, OVP Status : Fault = Logic 0, OK = Logic 1, OTP Status : Fault = Logic 0, OK = Logic 1, Remote Status : Remote = Logic 1, Local = Logic 0
Remote shutdown	+5 V
Remote Programming	
RS232 / USB / RS485	
Voltage Programing	Resolution : Better than 15 bit Accuracy : 0.05% Vout + 0.05% Vrated
Current Programing	Resolution : Better than 15 bit Accuracy : 0.1% Iout + 0.1% Irated
Monitor Voltage	Resolution : Better than 15 bit

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	Accuracy : 0.1% Vout + 0.1% Vrated
Monitor Current	Resolution : Better than 15 bit Accuracy : 0.25% Iout + 0.2% Irated
OVL & UVL Programing	Resolution : Better than 15 bit Accuracy : 0.05% Vout + 0.05% Vrated
Front Panel controls: **Indicators :**	Mains ON/ OFF, Voltage and Current setting with encoders, Switch Settings: Set, Over Voltage, Under Voltage, Foldback, Remote & Output LEDs for : CV, CC, Over Voltage, Under Voltage, Foldback, Remote & Output ON
Display	
Resolution	
Voltage	4 Digit
Current	4 Digit
Accuracy	± (0.5% + 2 D)
Display scale	
Voltage	0 ~ 60.00 V
Current	0 ~ 55.00 A
Protections	Over voltage , Over current, Short Circuit, Fold Back, Over temperature
Output Terminals	Bus bar with M5 bolts
Mains Input	230V ± 10%, 50 / 60Hz (47 ~ 63Hz)
Power Factor	0.99 @ full load / 0.98 @ 50% load
Turn On Delay	600 ms after mains switched ON
Inrush current	< 30 A
Hold up Time	20 ms
Environment Conditions	
Operating Temperature	0 ~ +50℃; with 100% load; derate 75% at 60℃
Storage	-40 ~ + 85℃
Humidity	max. 95% non condensing at 40℃ max. 75% non condensing at 50℃
Insulation	Input to Output : 3750 Vdc for 1 min Input to case : 2500 Vdc Output to case : 600 V Insulation resistance : 100 MΩ at 25℃, 70% RH, 500 Vdc
Dimension	W x D x H : 443 x 445 x 88.9 mm (2U, 19” Rack size) excluding connectors, terminals, switches, front and back panel controls, handles etc
Weight	18 kg (Approx)

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Cooling	Forced , variable fan speed
Standard Interface	Analog Programming, USB, RS232, RS485
Accessories Supplied	Mains Cable, Interface Cable

Subject to change without notice

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