

PLR-Series

Low Noise D.C. Power Supply

FEATURES

- Output Voltage Rating : 20V/36V/60V
- Output Power: 360W/720W
- Low Ripple and Noise(0.5mVrms/10mArms)
- Fast Transition Recovery Time(100 µs)
- Equipped Power Factor Correction Circuit for AC-input 100~240VAC
- Maximum 2 units in Series Connections or 3 units in Parallel Connections
- Select the Setting Digits for Voltage and Current(Coarse/Fine Volume Control)
- Panel Lock Function/ 3 set of Preset Function
- Output Off Timer Function(Range:1 min to 1000 hours & 59mins)
- CC Priority Function(Prevent Overshoot & Inrush Current)
- Sequence Function of PC Editing(Max.:1000 steps/Min. step Period:50ms)
- Protection : OVP, UVP, OCP, Remote Sensing(Terminal Open)
- External Analog Control Function
- PC Remote Interface : Standard : RS-232 ; Optional : GPIB/USB/LAN



GW Instek launches the new generation PLR-series programmable switching D.C. power supply. The single power output ranges are 360W and 720W. The series comprises 6 models and the voltage ranges are 20V, 36V and 60V. The PLR- series is a hybrid circuit design which incorporates front stage switching and rear stage linear architectures. The unique advantages of this design benefit from the combination of both switching and linear structures. The front stage switching structure can effectively reduce size and weight, and the rear stage linear structure can maintain lower ripple voltage, lower ripple current, and faster transient response.

The PLR-series features many functions, including three sets of user-defined Preset function; programmable automatic Output off timer function; programmable Sequence function; CV, CC priority activation functions (prevent overshoot and inrush current while output is turned on); External voltage and current output control and OVP, OCP and UVP functions. The above functions are built-in. Users do not have to pay for any extra costs.

The flexible allocation is one of the advantages of the PLR-series. For users require large output power, the PLR-series allows maximum 3 same model units in parallel connection to obtain larger output current, and maximum 2 same model units in series connection to obtain larger output voltage.

The PLR-series takes the consideration of the integration between its rack and other systems. Hence, the heat dissipation design adopts front air inlet and rear air outlet (there is no air outlet on the top, bottom, and on the both sides). The optional dedicated rack mount adapter (GRA-427) is for PLR-series to be rack mounted. Other equipment can be directly placed on top or under PLR-series to save rack space.

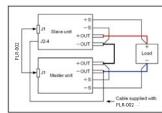
The PLR-series is equipped with RS-232 interface and also provides optional GPIB&USB (PLR-GU) and USB&LAN (PLR-LU). The program control of maximum 32 units can be realized by Local Bus no matter which interface is utilized. Additionally, the PLR-ARC interface not only provides external voltage and external resistance control but also meets the requirement of PLC control.

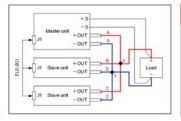
The PLR-series genuinely meets users' requirements of the new generation DC power supplies. The series, completely simplifying and expediting system development processes, is suitable for the R&D, design verification, and manufacturing of the semi-conductor equipment, automobile, component and communications industries.

There are 6 models of the PLR-series. Model number, output voltage, output current and output power are as follows:

Function Model	PLR 20-18	PLR 20-36	PLR 36-10	PLR 36-20	PLR 60-6	PLR 60-12
Output Channel	1	1	1	1	1	1
Output Voltage	0~20V	0~20V	0~36V	0~36V	0~60V	60V
Output Current	0~18A	0~36A	0~10A	0~20A	0~6A	12A
Output Power	360W	720W	360W	720W	360W	720W

SERIES AND PARALLEL CONNECTIONS (Voltage and Current Allocation Chart for Series and Parallel Operation)



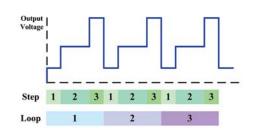


Unit	PLR 20-18	PLR 20-36	PLR 36-10	PLR 36-20	PLR 60-6	PLR 60-12
Single Unit Voltage/Current Allocation	20V/18A	20V/36A	36V/10A	36V/20A	60V/6A	60V/12A
2 units in Series Operation Voltage/Current Allocation	40V/18A	40V/36A	72V/10A	72V/20A	120V/6A	120V/12A
2 units in Paralle Operation Voltage/Current Allocation	20V/36A	20V/72A	36V/20A	36V/40A	60V/12A	60V/24A
3 units in Paralle Operation Voltage/Current Allocation	20V/54A	20V/108A	36V/30A	36V/60A	60V/18A	60V/36A

Series Connection Diagram

Parallel Connection Diagram

To bring up the overall output power, the PLR-series supports same model units to be arranged in series operation for the maximum 2 units or in parallel operation for maximum 3 units. The series is very suitable for the power supply applications on D.C. power supply modules, electronic parts and components, and wafer plating equipment.



Example for the Sequence Operation

Before applying the sequence function, a series of different voltage, current and duration steps must be edited by a PC to make a sequence. CSV format, through RS-232C, LAN/USB (option) or GPIB/USB (option) interface, is transmitted to the memory of the PLR-series to sequentially execute steps consisting of voltage, current, and duration settings of the sequence. The shortest time for each step is 1 second and the maximum steps are 1000. The sequence function is to test DUT's response to the fast changing power supply that is one of the crucial verification items for electronic products' reliability tests.

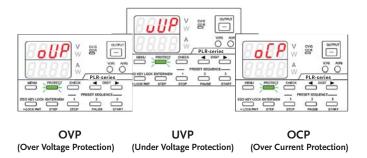
OUTPUT OFF TIMER FUNCTION



Counting Down From 2hr and 20mins

The output off timer function is to set the PLR-series to automatically turn off its output after a certain period of time. The shortest time setting is 1 minute. The setting range is from 1 minute to the maximum 1000 hours and 59 minutes. This function can only be activated when power supply output is being turned on.

D. OVP, OCP AND UVP FUNCTIONS



When the voltage and current outputs exceed the preset conditions of OVP and OCP, the PLR-series will be shut down so as to prevent DUT from any damages.

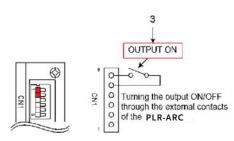
OCP : the setting range is 5%~110% of the rated output OVP : the setting range is 10%~110% of the rated output UVP : the setting range is $1V \sim 110\%$ of the rated output

PRESET FUNCTION



The PLR-series provides three parameter preset function keys on the front panel and each preset memory consists of parameters of output voltage and output current settings. Users via storing frequently used voltage and current parameters from the front panel to quickly save and recall parameters.

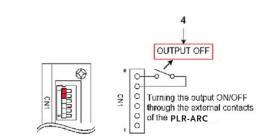
F. EXTERNAL ANALOG CONTROL FUNCTION



Turning the Output on by External Analog Control Interface

The rear panel of the PLR-series features analog control terminal which controls output voltage and current values through external voltage or resistance. The on and off of power supply output or main power disconnection can also

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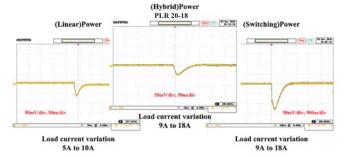


Turning the Output Off by External Analog Control Interface

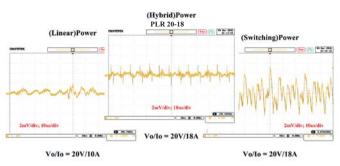
be executed via external analog control interface. The above diagrams show the typical external analog control connection methods. For more connection information, please refer to the user manual.

(Hybrid)Power PLR 20-18 (Linear)Power (Switching)Power -O 18 814 -----Load current variation 0 18A to 9A Load current variation d current variation 10A to 5A 18A to 9A Current Falling (Vo = 20V)

COMPARISONS ON TRANSIENT RECOVERY TIME CHARACTERISTICS

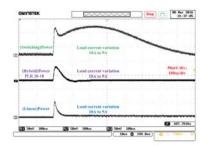


Current Rising (Vo = 20V)

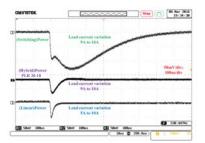


Ripple for Rating Power Output (Bandwidth : 1MHz)

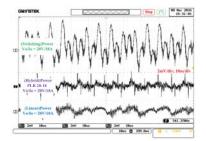
Structure	Ripple Voltage	Ripple Current	Weight
Linear/200W	0.35mVrms	2mArms	10kg
PLR 20-18(Hybrid)/360W	0.5mVrms	5mArms	5.2kg
Switching/360W	7mVrms	72mArms	7kg



Current Falling Comparison



Current Rising Comparison



Ripple Comparison for Rating Power Output

The PLR-series has a fast transient recovery capability, which is ideal for applications of large load current changes. The above diagrams show the actual comparative results of transient response time under different techniques.



H. FEATURE COMPARISONS

Operation	Linear Type Power Supply		PLR-series (Hybrid)		Switching Type Power Supply	
Ripple & Noise for CV	0.35mVrms(Typ.)	O	≦ 0.5mVrms	0	7mVrms(Typ.)	Δ
Ripple & Noise for CC	< 2mArms(Typ.)	Ø	5mArms	0	72mArms(Typ.)	Δ
Recovery Time	< 50 µs(Тур.)	Ø	≦ 100μs	0	lms(Тур.)	Δ
Series & Parallel Operation	_		1		\checkmark	
External Analog Control Interface	-		Opt.		Std.	
Interfaces	Std. : RS-232/GPIB		Std. : RS-232/Local bus Opt. : LAN/USB or GPIB/US	в	Std. : USB/LAN Opt. : USB to GPIB, USB to RS-23	2
Power	200W		360W		360W	
Dimensions (mm)	230(W) × 140(H) × 38	0(D) 🛆	140(W) × 124(H) × 364(D)	0	71(W) × 124(H) × 350(D)	0
Weight	10 kg	Δ	5.2 kg	0	3 kg	0
CE Certificate	\checkmark		\checkmark		1	

 $\bigcirc : \mathsf{Excellent} \bigcirc : \mathsf{Good} \land : \mathsf{Bad} \end{pmatrix}$

SPECIFICATIONS	1	,		1		
	PLR 20-18	PLR 20-36	PLR 36-10	PLR 36-20	PLR 60-6	PLR 60-12
OUTPUT RATING Voltage	0V ~ 20V	0V ~ 20V	0V ~ 36V	0V ~ 36V	0V ~ 60V	0V ~ 60V
Current	0~18A	0~36A	0~10A	0~20A	0 ~ 6A	0~12A
Power	360W	720W	360W	720W	360W	720W
REGULATION (CV)						
Load Line	3mA 2mA	3mA 2mA	3.8mA 2.8mA	3.8mA 2.8mA	5mA 4mA	5mA 4mA
REGULATION (CC)	2	2	2101111	2.0111		
Load	5mA	5mA	5mA	5mA	5mA	5mA
Line	5mA	10mA	1mA	5mA	1mA	5mA
RIPPLE & NOISE (Noise Band			20. 1/	20.14	20.14	20. 1/
CV p-p CV rms	30mVp-p 0.5mVrms	30mVp-p 0.5mVrms	30mVp-p 0.5mVrms	30mVp-p 0.5mVrms	30mVp-p 0.5mVrms	30mVp-p 0.5mVrms
CC rms	10mArms	10mArms	5mArms	10mArms	5mArms	5mArms
READBACK ACCURACY (23°C	±5°C, after 30 mins warm-i	up)		I	l.	
Voltage	(0.1%rdg+2digits)		(0.1%rdg+2digits)		(0.1%rdg+2digits	
Current Power	(0.5%rdg+2digits) (0.7%rdg+1.5%F.S.)		(0.5%rdg+2digits) (0.7%rdg+1.5%F.S	.)	(0.5%rdg+2digits (0.7%rdg+1.5%F	
SETTING ACCURACY (23°C±5			(017)01451110/0110	.,	(0.7)01051110701	,
Voltage	(0.5%SET+0.5%F.S.)		(0.5%SET+0.5%F.S	5.)	(0.5%SET+0.5%F	F.S.)
Current	(1%SET+1%F.S.)		(1%SET+1%F.S.)	·	(1%SET+1%F.S.)	-
RESPONSE TIME						
Raise Time Output voltage: 10%→90%FS)	50ms/50ms: No load/F	Rated load	50ms/50ms: No load	I/Rated load	50ms/50ms: No lo	ad/Rated load
Fall Time(Full load) Output voltage: 90%→10%FS)	50ms		50ms		150ms	
Fall Time(No load)	250ms		250ms		600ms	
(Output voltage: 90%→10%FS) Load Transient Recover Time	100 μ s		100 μ s		100 μ s	
(Load change from 50 to 100%)						
SETTING RESOLUTION					1	
Voltage	10mV		10mV		10mV	
Current MEASUREMENT RESOLUTIO	10mA		10mA		10mA	
Voltage	10mV		10mV		10mV	
Current	10mA		10mA		10mA	
SERIES AND PARALLEL CAPA	BILITY				1	
					Up to 3 units	
Parallel Operation	Up to 3 units		Up to 3 units			
Series Operation	Up to 3 units Up to 2 units		Up to 2 units		Up to 2 units	
Series Operation PPROTECTION FUNCTION	Up to 2 units	4 E.S. Sat resolution: 10 tir	Up to 2 units	av resolution		
Series Operation PPROTECTION FUNCTION	Up to 2 units Set range : 10% to 110%	6 F.S. Set resolution: 10 tir	Up to 2 units mes the minimum displa			
Series Operation	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110%	out voltage exceeds the set F.S. Set resolution: 10 tim	Up to 2 units mes the minimum displa t OVP value : Hardware of thes of minimum display in	detection resolution		
Series Operation PPROTECTION FUNCTION OVP OCP	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp	out voltage exceeds the set F.S. Set resolution: 10 tim out current exceeds set OC	Up to 2 units mes the minimum displa t OVP value : Hardware (tes of minimum display) CP value : Software detect	detection resolution :tion		
Series Operation PPROTECTION FUNCTION OVP	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110%	out voltage exceeds the set F.S. Set resolution: 10 tim	Up to 2 units mes the minimum displa t OVP value : Hardware of ees of minimum display CP value : Software detect tes the minimum display	detection resolution tion v resolution		
Series Operation PPROTECTION FUNCTION OVP OCP	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp	but voltage exceeds the set F.S. Set resolution: 10 tim but current exceeds set OC F.S. Set resolution: 10 tim	Up to 2 units mes the minimum displa t OVP value : Hardware of ees of minimum display CP value : Software detect tes the minimum display	detection resolution tion v resolution		
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp.	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C	but voltage exceeds the set F.S. Set resolution: 10 tim but current exceeds set OC F.S. Set resolution: 10 tim	Up to 2 units mes the minimum displa t OVP value : Hardware of ees of minimum display CP value : Software detect tes the minimum display	detection resolution tion v resolution		
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp.	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C	but voltage exceeds the set F.S. Set resolution: 10 tim but current exceeds set OC F.S. Set resolution: 10 tim but voltage falls below the	Up to 2 units mes the minimum displa t OVP value : Hardware of ees of minimum display CP value : Software detect tes the minimum display	detection resolution tion v resolution		
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp.	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C	but voltage exceeds the set F.S. Set resolution: 10 tim out current exceeds set OC F.S. Set resolution: 10 tim out voltage falls below the w condensation)	Up to 2 units mes the minimum displa t OVP value : Hardware of ees of minimum display CP value : Software detect tes the minimum display	detection resolution tion v resolution		
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (no dev	but voltage exceeds the set F.S. Set resolution: 10 tim out current exceeds set OC F.S. Set resolution: 10 tim out voltage falls below the w condensation)	Up to 2 units mes the minimum displa t OVP value : Hardware of ees of minimum display CP value : Software detect tes the minimum display	detection resolution tion v resolution		
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C	but voltage exceeds the set F.S. Set resolution: 10 tim out current exceeds set OC F.S. Set resolution: 10 tim out voltage falls below the w condensation)	Up to 2 units mes the minimum displa t OVP value : Hardware of ees of minimum display CP value : Software detect tes the minimum display	detection resolution tion v resolution		
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity Storage Aumidity READ BACK TEMP. COEFFICI Voltage Current	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT	but voltage exceeds the set F.S. Set resolution: 10 tim out current exceeds set OC F.S. Set resolution: 10 tim out voltage falls below the w condensation)	Up to 2 units mes the minimum displa t OVP value : Hardware of ees of minimum display CP value : Software detect tes the minimum display	detection resolution tion v resolution		
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C	but voltage exceeds the set F.S. Set resolution: 10 tim but current exceeds set OC F.S. Set resolution: 10 tim ut voltage falls below the w condensation) v condensation)	Up to 2 units mes the minimum displa t OVP value : Hardware o les of minimum display CP value : Software detec es the minimum display set UVP value : Software	detection resolution tion resolution e detection	Up to 2 units	1000VA
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C	but voltage exceeds the set F.S. Set resolution: 10 tim but current exceeds set OC F.S. Set resolution: 10 tim but voltage falls below the w condensation)	Up to 2 units mes the minimum displa t OVP value : Hardware of ees of minimum display CP value : Software detect tes the minimum display	detection resolution tion v resolution		1000VA 0.99
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No der 20% ~ 85% RH (no der ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp	but voltage exceeds the set F.S. Set resolution: 10 tim but current exceeds set OC F.S. Set resolution: 10 tim but voltage falls below the w condensation) v condensation) v condensation) v lineway 1100VA 0.99 eed proportionate to the	Up to 2 units mes the minimum display t OVP value : Hardware d tes of minimum display CP value : Software detect tes the minimum display set UVP value : Software 520VA 0.99 e temperature of the in	detection resolution tion e detection 1050VA 0.99	Up to 2 units	
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Source	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t	but voltage exceeds the set F.S. Set resolution: 10 tim but current exceeds set OC F.S. Set resolution: 10 tim but voltage falls below the w condensation) v condensation) v condensation) v loove 1100VA 0.99 eed proportionate to the to 240VAC, 50Hz to 60H.	Up to 2 units mes the minimum display t OVP value : Hardware detec P value : Software detec ses the minimum display set UVP value : Software 520VA 0.99 e temperature of the in z	detection resolution tion e detection 1050VA 0.99	Up to 2 units	
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t	but voltage exceeds the set F.S. Set resolution: 10 tim but current exceeds set OC F.S. Set resolution: 10 tim but voltage falls below the w condensation) v condensation) v condensation) v lineway 1100VA 0.99 eed proportionate to the	Up to 2 units mes the minimum display t OVP value : Hardware detec P value : Software detec ses the minimum display set UVP value : Software 520VA 0.99 e temperature of the in z	detection resolution tion e detection 1050VA 0.99	Up to 2 units	
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Source Interface Analog Control	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No der 20% ~ 85% RH (No der 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x	Dut voltage exceeds the set F.S. Set resolution: 10 tim Dut current exceeds set OC F.S. Set resolution: 10 tim uut voltage falls below the w condensation) v condensation) v condensation) v condensation) v eed proportionate to th to 240VAC, 50Hz to 60H. rd); GPIB/USB (Optio 139.5 (H) x 210(W) x	Up to 2 units mes the minimum display t OVP value : Hardware detect tes of minimum display CP value : Software detect tes the minimum display set UVP value : Software 520VA 0.99 e temperature of the in z n) 139.5 (H) x 140(W) x	detection resolution tion e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x	Up to 2 units	0.99
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Source Interface Analog Control	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No der 20% ~ 85% RH (No der 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x	but voltage exceeds the set F.S. Set resolution: 10 tim but current exceeds set OC F.S. Set resolution: 10 tim uut voltage falls below the w condensation) v condensation) v condensation) v condensation) eed proportionate to the co 240VAC, 50Hz to 60H. rd); GPIB/USB (Option	Up to 2 units mes the minimum display t OVP value : Hardware detec tes of minimum display CP value : Software detec tes the minimum display set UVP value : Software 520VA 0.99 temperature of the in z n)	detection resolution tion v resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg	Up to 2 units 510VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k	0.99 139.5 (H) x 210(W g 415.5(D); Approx. 7.5
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Source Interface Analog Control Dimension & Weight	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg	Dut voltage exceeds the set F.S. Set resolution: 10 tim Dut current exceeds set OC F.S. Set resolution: 10 tim uut voltage falls below the w condensation) v condensation) v condensation) v condensation) v eed proportionate to th to 240VAC, 50Hz to 60H. rd); GPIB/USB (Optio 139.5 (H) x 210(W) x	Up to 2 units mes the minimum display t OVP value : Hardware detector tes of minimum display 1 CP value : Software detector tes the minimum display set UVP value : Software 520VA 0.99 e temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg	detection resolution tion v resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg	Up to 2 units	0.99 139.5 (H) x 210(W g 415.5(D); Approx. 7.5
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Source Interface Analog Control Dimension & Weight ORDERING INFORM	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp O°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ATION	but voltage exceeds the set F.S. Set resolution: 10 tim but current exceeds set OC F.S. Set resolution: 10 tim uut voltage falls below the w condensation) v condensation) v condensation) eed proportionate to the c 240VAC, 50Hz to 60H; rd); GPIB/USB (Optio) 139.5 (H) x 210(W) x 415.5 (D); Approx. 7.5kg	Up to 2 units mes the minimum display t OVP value : Hardware detec EP value : Software detec tes the minimum display set UVP value : Software 520VA 0.99 e temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg User Manual(CD) x 1, F	detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Outpu	Up to 2 units 510VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s	0.99 139.5 (H) x 210(W g 415.5(D); Approx. 7.5 ottice. PLR-SeriesGD1 et x 1 (Hexagon head bo
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Source Interface Analog Control Dimension & Weight ORDERING INFORM PLR 20-18 (0~20V/0~18A	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ATION /360W) Low Noise DC	put voltage exceeds the set F.S. Set resolution: 10 tim put current exceeds set OC F.S. Set resolution: 10 tim uut voltage falls below the w condensation) v condensation) v condensation) v condensation) v condensation) eed proportionate to the v 240VAC, 50Hz to 60H; rd); GPIB/USB (Optio) 139.5 (H) x 210(W) x 415.5 (D); Approx. 7.5kg Power Supply	Up to 2 units mes the minimum display t OVP value : Hardware detect tes of minimum display CP value : Software detect tes the minimum display set UVP value : Software 520VA 0.99 e temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg User Manual(CD) x 1, F P-3 x 2, Flat washer x 2,	detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub	Up to 2 units 510VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s	0.99 139.5 (H) x 210(W g 415.5(D); Approx. 7.5 ottice. PLR-SeriesGD1 et x 1 (Hexagon head bo
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Factor Cooling Method Power Source Interface Analog Control Dimension & Weight ORDERING INFORM PLR 20-18 (0~20V/0~18A PLR 20-36 (0~20V/0~36A	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ATION /360W) Low Noise DC /720W) Low Noise DC	put voltage exceeds the set F.S. Set resolution: 10 tim put current exceeds set OC F.S. Set resolution: 10 tim uut voltage falls below the w condensation) v condensation v condensation v condensation v condensation v condensation v condensat	Up to 2 units mes the minimum display t OVP value : Hardware detec CP value : Software detec tes the minimum display set UVP value : Software 520VA 0.99 e temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ACCESSORIES User Manual(CD) x 1, F P-3 x 2, Flat washer x 2, M3 Small Screw Washer OPTIONAL ACCE	detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Output g resolution x 1, Matarge Screw Wash SSORIES	Up to 2 units 510VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s rounding cable x 1, M4 Sn er x 2	0.99 139.5 (H) x 210(W g 135.5(D); Approx. 7.5 btice. PLR-SeriesGD1 tet x 1(Hexagon head bonall Screw Washer x 1,
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Factor Cooling Method Power Source Interface Analog Control Dimension & Weight ORDERING INFORM PLR 20-18 (0~20V/0~18A PLR 20-36 (0~20V/0~10A	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp O°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ATION /360W) Low Noise DC /360W) Low Noise DC /360W) Low Noise DC	put voltage exceeds the set F.S. Set resolution: 10 tim put current exceeds set OC F.S. Set resolution: 10 tim uut voltage falls below the w condensation) w condensation) v condensation) v condensation) v condensation) ut voltage falls below the 1100VA 0.99 eed proportionate to the co 240VAC, 50Hz to 60H: 139.5 (H) x 210(W) x 415.5 (D); Approx. 7.5kg Power Supply Power Supply Power Supply Power Supply Power Supply	Up to 2 units mes the minimum display t OVP value : Hardware of les of minimum display I CP value : Software detec les the minimum display set UVP value : Software set UVP value : Software 520VA 0.99 e temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ACCESSORIES User Manual(CD) x 1, F P-3 x 2, Flat washer x 2, M3 Small Screw Washe OPTIONAL ACCE PLR-CU CDIB/USB PLR-LU LAN/USB	detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Output Hexagon nut x 2), Output g rx 1, M3 Large Screw Wash SSORIES Interface Card Interface Card	Up to 2 units 510VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s grounding cable x 1, M4 Sn er x 2 GTL-246 USB Cabl GTL-248 GPIB Cab	0.99 139.5 (H) x 210(W g 415.5(D); Approx. 7.5 btice. PLR-SeriesGD1 tet x 1 (Hexagon head bc hall Screw Washer x 1, e (1.2m) le (2.0m)
Series Operation PPROTECTION FUNCTION PPROTECTION FUNCTION OVP COCP JVP ENVIRONMENT CONDITION Deparation Temp. Storage Temp. Deparating Humidity Storage Humidity Storage Humidity EAAD BACK TEMP. COEFFICI foltage Current DTHER Power Consumption Power Factor Cooling Method Power Source nterface Analog Control Dimension & Weight DRDERING INFORM PLR 20-18 (0~20V/0~18A PLR 20-36 (0~20V/0~18A PLR 36-10 (0~36V/0~10A PLR 36-20 (0~36V/0~20A	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp O°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ATION /360W) Low Noise DC /720W) Low Noise DC /720W) Low Noise DC	put voltage exceeds the set F.S. Set resolution: 10 tim put current exceeds set OC F.S. Set resolution: 10 tim uut voltage falls below the w condensation) v condensation v condensation <td>Up to 2 units mes the minimum display t OVP value : Hardware detec EP value : Software detec tes the minimum display set UVP value : Software set UVP value : Software 520VA 0.99 e temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ACCESSORIES User Manual(CD) x 1, F P.3 x 2, Flat washer x 2, M3 Small Screw Washe OPTIONAL ACCE PLR-CU GPIB/USB PLR-RC External Ar</td> <td>detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Output Hexagon nut x 2), Output g rx 1, M3 Large Screw Wash SSORIES Interface Card Interface Card Interface Card Interface Card Interface Card Interface Card</td> <td>Up to 2 units 510VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s grounding cable x 1, M4 Sn er x 2 GTL-246 USB Cabl GTL-248 GPIB Cab</td> <td>0.99 139.5 (H) x 210(W g 415.5(D); Approx. 7.5 btice. PLR-SeriesGD1 tet x 1 (Hexagon head bc hall Screw Washer x 1, e (1.2m) le (2.0m)</td>	Up to 2 units mes the minimum display t OVP value : Hardware detec EP value : Software detec tes the minimum display set UVP value : Software set UVP value : Software 520VA 0.99 e temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ACCESSORIES User Manual(CD) x 1, F P.3 x 2, Flat washer x 2, M3 Small Screw Washe OPTIONAL ACCE PLR-CU GPIB/USB PLR-RC External Ar	detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Output Hexagon nut x 2), Output g rx 1, M3 Large Screw Wash SSORIES Interface Card Interface Card Interface Card Interface Card Interface Card Interface Card	Up to 2 units 510VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s grounding cable x 1, M4 Sn er x 2 GTL-246 USB Cabl GTL-248 GPIB Cab	0.99 139.5 (H) x 210(W g 415.5(D); Approx. 7.5 btice. PLR-SeriesGD1 tet x 1 (Hexagon head bc hall Screw Washer x 1, e (1.2m) le (2.0m)
Series Operation PPROTECTION FUNCTION PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Source Interface Analog Control Dimension & Weight ORDERING INFORM PLR 20-18 (0~20V/0~18A PLR 20-36 (0~20V/0~18A PLR 36-10 (0~36V/0~10A PLR 36-20 (0~36V/0~20A PLR 60-6 (0~60V/0~6A/3	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp O°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 8	Dut voltage exceeds the set F.S. Set resolution: 10 tim but current exceeds set OC F.S. Set resolution: 10 tim uut voltage falls below the w condensation) w condensation) v condensation) v condensation) ut voltage falls below the 1100VA 0.99 eed proportionate to the co 240VAC, 50Hz to 60H: rd); GPIB/USB (Optio) 139.5 (H) x 210(W) x 415.5 (D); Approx. 7.5kg Power Supply	Up to 2 units mes the minimum display t OVP value : Hardware of tes of minimum display CP value : Software detec tes the minimum display set UVP value : Software set UVP value : Software 520VA 0.99 te temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg User Manual(CD) x 1, F P.3 x 2, Flat washer x 2, M3 Small Screw Washe OPTIONAL ACCE PLR-OU PLR-OU PLR-OU PLR-OU Series Con	detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Output Hexagon nut x 2), Output g rx 1, M3 Large Screw Wash SSORIES Interface Card Interface Card	Up to 2 units 510VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s rounding cable x 1, M4 Sn er x 2 GTL-246 USB Cabl GTL-248 GPIB Cabl GTL-245 GPIB Cabl GTL-245 GPIB Cabl	0.99 139.5 (H) x 210(W g 415.5(D); Approx. 7.5 btice. PLR-SeriesGD1 tet x 1 (Hexagon head bo nall Screw Washer x 1, e (1.2m) le (2.0m) h-HS (High-Speed) Cable (0.5m)
Series Operation PPROTECTION FUNCTION PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity READ BACK TEMP. COEFFICI Voltage Current DTHER Power Consumption Power Factor Cooling Method Power Source Interface Analog Control Dimension & Weight ORDERING INFORM PLR 20-18 (0~20V/0~36A PLR 36-10 (0~36V/0~20A PLR 60-6 (0~60V/0~2A PLR 60-12 (0~60V/0~12A	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp O°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 8	Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply	Up to 2 units mes the minimum display t OVP value : Hardware of tes of minimum display CP value : Software detec tes the minimum display set UVP value : Software set UVP value : Software 520VA 0.99 te temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg User Manual(CD) x 1, F P.3 x 2, Flat washer x 2, M3 Small Screw Washe OPTIONAL ACCE PLR-OU PLR-OU PLR-OU PLR-OU Series Con PLR-OU Series Con	detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Outpu Hexagon nut x 2), Output g r x 1, M3 Large Screw Wash SSORIES Interface Card Interface Card Interface Card Interface Card	Up to 2 units 510VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s grounding cable x 1, M4 Sn er x 2 GTL-246 USB Cable GTL-248 GPIB Cable GTL-248 GPIB Cable GTL-24101 Modular (D)	0.99 139.5 (H) x 210(W g 415.5(D); Approx. 7.5 btice. PLR-SeriesGD1 tet x 1 (Hexagon head bo nall Screw Washer x 1, e (1.2m) le (2.0m) h-HS (High-Speed) Cable (0.5m)
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Source Interface Analog Control Dimension & Weight ORDERING INFORM PLR 20-18 (0~20V/0~18A PLR 20-36 (0~20V/0~10A PLR 36-10 (0~36V/0~10A PLR 36-20 (0~36V/0~20A PLR 60-6 (0~60V/0~21A obal Headquarters	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 8	Dut voltage exceeds the set F.S. Set resolution: 10 tim but current exceeds set OC F.S. Set resolution: 10 tim uut voltage falls below the w condensation) w condensation) v condensation) v condensation) ut voltage falls below the 1100VA 0.99 eed proportionate to the co 240VAC, 50Hz to 60H: rd); GPIB/USB (Optio) 139.5 (H) x 210(W) x 415.5 (D); Approx. 7.5kg Power Supply	Up to 2 units mes the minimum display t OVP value : Hardware detec to VP value : Software detec tes the minimum display set UVP value : Software set UVP value : Software 520VA 0.99 temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ACCESSORIES User Manual(CD) x 1, F P.3 x 2, Flat washer x 2, M Small Screw Washe OPTIONAL ACCE PLR-CU CPIB/USB PLR-NC External Ar PLR-001 Parallel Cor PLR-002 Series Con GRA-427 Rack Mour	detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Output Hexagon nut x 2), Output g rx 1, M3 Large Screw Wash SSORIES Interface Card Interface Card	Up to 2 units 510VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s rounding cable x 1, M4 Sn er x 2 GTL-246 USB Cabl GTL-248 GPIB Cabl GTL-215 GPIB-USE is) GRJ-1101 Modular (GRJ-1102 Modular 0	0.99 139.5 (H) x 210(W g 415.5(D); Approx. 7.5 stice. PLR-SeriesGD1 set x 1 (Hexagon head bo nall Screw Washer x 1, e (1.2m) le (2.0m) 3-H5 (High-Speed) Cable (0.5m) Cable (1.5m)
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Source Interface Analog Control Dimension & Weight ORDERING INFORM	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ATION /360W) Low Noise DC /720W) Low Noise DC	Power Supply Power Supply	Up to 2 units mes the minimum display t OVP value : Hardware detec to VP value : Software detec tes the minimum display set UVP value : Software set UVP value : Software 520VA 0.99 temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ACCESSORIES User Manual(CD) x 1, F P.3 x 2, Flat washer x 2, M Small Screw Washe OPTIONAL ACCE PLR-CU CPIB/USB PLR-NC External Ar PLR-001 Parallel Cor PLR-002 Series Con GRA-427 Rack Mour	detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Output Hexagon nut x 2), Output g rx 1, M3 Large Screw Wash SSORIES Interface Card Interface Card	Up to 2 units 510VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s rounding cable x 1, M4 Sn er x 2 GTL-246 USB Cabl GTL-248 GPIB Cabl GTL-215 GPIB-USE is) GRJ-1101 Modular (GRJ-1102 Modular 0	0.99 139.5 (H) x 210(W g 415.5(D); Approx. 7.5 btice. PLR-SeriesGD1 tet x 1 (Hexagon head bo nall Screw Washer x 1, e (1.2m) le (2.0m) h-HS (High-Speed) Cable (0.5m)
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Source Interface Analog Control Dimension & Weight ORDERING INFORM PLR 20-18 (0~20V/0~18A PLR 20-36 (0~20V/0~18A PLR 36-10 (0~36V/0~10A PLR 36-10 (0~36V/0~10A PLR 36-20 (0~36V/0~12A OD WILL INSTRUME +886-2-2268-0389 F +886-2-22 ina Subsidiary	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ATION /360W) Low Noise DC /720W) Low Noise DC	Power Supply Power Supply	Up to 2 units mes the minimum display t OVP value : Hardware detec tes of minimum display is CP value : Software detec tes the minimum display set UVP value : Software 520VA 0.99 e temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg User Manual(CD) x 1, F P3 x 2, Flat washer x 2, M3 Small Screw Washe OPTIONAL ACCE PLR-CU GPIB/USB PLR-RC External Ar PLR-OU GPIB/USB PLR-RC External Ar PLR-OU Parallel Cor PLR-02 Series Con GRA-427 Rack Mour RICA CORP.	detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Output Hexagon nut x 2), Output g rx 1, M3 Large Screw Wash SSORIES Interface Card Interface Card	S10VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s rounding cable x 1, M4 Sn er x 2 GTL-246 USB Cabl GTL-248 GPIB Cab GTL-215 GPIB-USE GTL-215 GPIB-USE GTL-215 GPIB-USE GRJ-1101 Modular (GRJ-1102 Modular (0.99 139.5 (H) x 210(W g 139.5 (D); Approx. 7.5 btice. PLR-SeriesGD1 tet x 1 (Hexagon head bo hall Screw Washer x 1, e (1.2m) le (2.0m) 3-HS (High-Speed) Cable (0.5m) Cable (1.5m) SSTEEK
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Source Interface Analog Control Dimension & Weight ORDERING INFORM PLR 20-18 (0~20V/0~18A PLR 20-36 (0~20V/0~36A PLR 36-10 (0~36V/0~10A PLR 36-10 (0~36V/0~10A PLR 36-20 (0~36V/0~20A PLR 60-6 (0~60V/0~6A/2 PLR 60-12 (0~60V/0~6A/2 PLR 60-12 (0~60V/0~12A obal Headquarters OOD WILL INSTRUMENT	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp O°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ATION /360W) Low Noise DC /720W) Low Noise DC	Power Supply Power Supply	Up to 2 units mes the minimum display t OVP value : Hardware detec tes of minimum display is CP value : Software detec tes the minimum display set UVP value : Software 520VA 0.99 e temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg User Manual(CD) x 1, F P3 x 2, Flat washer x 2, M3 Small Screw Washe OPTIONAL ACCE PLR-CU GPIB/USB PLR-RC External Ar PLR-OU GPIB/USB PLR-RC External Ar PLR-OU Parallel Cor PLR-02 Series Con GRA-427 Rack Mour RICA CORP.	detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Output Hexagon nut x 2), Output g rx 1, M3 Large Screw Wash SSORIES Interface Card Interface Card	S10VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s rounding cable x 1, M4 Sn er x 2 GTL-246 USB Cabl GTL-248 GPIB Cab GTL-215 GPIB-USE GTL-215 GPIB-USE GTL-215 GPIB-USE GRJ-1101 Modular (GRJ-1102 Modular (0.99 139.5 (H) x 210(W g 415.5(D); Approx. 7.5 stice. PLR-SeriesGD1 set x 1 (Hexagon head bo nall Screw Washer x 1, e (1.2m) le (2.0m) 3-H5 (High-Speed) Cable (0.5m) Cable (1.5m)
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Source Interface Analog Control Dimension & Weight ORDERING INFORM PLR 20-18 (0~20V/0~18A PLR 20-36 (0~20V/0~36A PLR 36-10 (0~36V/0~10A PLR 36-10 (0~36V/0~10A PLR 36-10 (0~36V/0~20A PLR 60-6 (0~60V/0~6A/2 PLR 60-12 (0~60V/0~6A/2 PLR 60-12 (0~60V/0~12A obal Headquarters OD WILL INSTRUMENT +86-512-6661-7177 F+86-512-66	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp O°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ATION /360W) Low Noise DC /720W) Low Noise DC	Dut voltage exceeds the set F.S. Set resolution: 10 tim pout current exceeds set OC F.S. Set resolution: 10 tim uut voltage falls below the w condensation) v condensation v condensation </td <td>Up to 2 units mes the minimum display t OVP value : Hardware of tess of minimum display CP value : Software detec tess the minimum display set UVP value : Software set UVP value : Software 520VA 0.99 e temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ACCESSORIES User Manual(CD) x 1, F P.A x 2, Flat washer x 2, M3 Small Screw Washe PLR-QU CPIB/USB PLR-LU LAN/USB PLR-RC External Ar PLR-OO Series Con GRA-427 Rack Mout RICA CORP. F +1-909-399-0819</td> <td>detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Output Hexagon nut x 2), Output g rx 1, M3 Large Screw Wash SSORIES Interface Card Interface Card</td> <td>S10VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s rounding cable x 1, M4 Sn er x 2 GTL-246 USB Cabl GTL-248 GPIB Cab GTL-215 GPIB-USE GTL-215 GPIB-USE GTL-215 GPIB-USE GRJ-1101 Modular (GRJ-1102 Modular (</td> <td>0.99 139.5 (H) x 210(W g 139.5 (D); Approx. 7.5 btice. PLR-SeriesGD1 tet x 1 (Hexagon head bo hall Screw Washer x 1, e (1.2m) le (2.0m) 3-HS (High-Speed) Cable (0.5m) Cable (1.5m) SSTEEK</td>	Up to 2 units mes the minimum display t OVP value : Hardware of tess of minimum display CP value : Software detec tess the minimum display set UVP value : Software set UVP value : Software 520VA 0.99 e temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ACCESSORIES User Manual(CD) x 1, F P.A x 2, Flat washer x 2, M3 Small Screw Washe PLR-QU CPIB/USB PLR-LU LAN/USB PLR-RC External Ar PLR-OO Series Con GRA-427 Rack Mout RICA CORP. F +1-909-399-0819	detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Output Hexagon nut x 2), Output g rx 1, M3 Large Screw Wash SSORIES Interface Card Interface Card	S10VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s rounding cable x 1, M4 Sn er x 2 GTL-246 USB Cabl GTL-248 GPIB Cab GTL-215 GPIB-USE GTL-215 GPIB-USE GTL-215 GPIB-USE GRJ-1101 Modular (GRJ-1102 Modular (0.99 139.5 (H) x 210(W g 139.5 (D); Approx. 7.5 btice. PLR-SeriesGD1 tet x 1 (Hexagon head bo hall Screw Washer x 1, e (1.2m) le (2.0m) 3-HS (High-Speed) Cable (0.5m) Cable (1.5m) SSTEEK
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Factor Cooling Method Power Factor Cooling Method Power Source Interface Analog Control Dimension & Weight ORDERING INFORM PLR 20-18 (0~20V/0~18A PLR 20-36 (0~20V/0~36A PLR 36-10 (0~36V/0~10A PLR 36-20 (0~36V/0~20A PLR 60-6 (0~60V/0~6A/2 PLR 60-12 (0~60V/0~12A obal Headquarters OOD WILL INSTRUMENT #886-2-2268-0389 F +886-2-22 ina Subsidiary OOD WILL INSTRUMENT	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 22 S70VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ATION /360W) Low Noise DC /720W) Low Noise DC	Power Supply Power	Up to 2 units mes the minimum display t OVP value : Hardware detec to VP value : Software detec tes the minimum display set UVP value : Software 520VA 0.99 temperature of the in z n) 139.5 (H) x 140 (W) x 415.5(D); Approx. 5.2kg User Manual (CD) x 1, F P.3 x 2, Flat washer x 2, M Small Screw Washe OPTIONAL ACCE PLR-CU GPIB/USB PLR-LU LAN/USB PLR-RC External Ar PLR-00 Parallel Cor PLR-00 Series Con GRA-427 Rack Moun RICA CORP. 5 F +1-909-399-0819 NOLOGY CORPOR	detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Output Hexagon nut x 2), Output g rx 1, M3 Large Screw Wash SSORIES Interface Card Interface Card	S10VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s rounding cable x 1, M4 Sn er x 2 GTL-246 USB Cabl GTL-248 GPIB Cab GTL-215 GPIB-USE GTL-215 GPIB-USE GTL-215 GPIB-USE GRJ-1101 Modular (GRJ-1102 Modular (0.99 139.5 (H) x 210(W g 139.5 (D); Approx. 7.5 btice. PLR-SeriesGD1 tet x 1 (Hexagon head bo hall Screw Washer x 1, e (1.2m) le (2.0m) 3-HS (High-Speed) Cable (0.5m) Cable (1.5m) SSTEEK
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Factor Cooling Method Power Factor Cooling Method Power Source Interface Analog Control Dimension & Weight ORDERING INFORM PLR 20-18 (0~20V/0~18A PLR 20-36 (0~20V/0~36A PLR 36-10 (0~36V/0~10A PLR 36-20 (0~36V/0~20A PLR 60-6 (0~60V/0~6A/2 PLR 60-12 (0~60V/0~12A obal Headquarters OOD WILL INSTRUMENT #86-512-6661-7177 F +86-512-66 alaysia Subsidiary OOD WILL INSTRUMENT #60-411122 F +604-6115225	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (No dev 20% ~ 85% RH (no dev 20% ~ 85% RH (no dev ENT 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ATION /360W) Low Noise DC /720W) Low Noise DC	Power Supply Power Supply	Up to 2 units mes the minimum display t OVP value : Hardware detec to VP value : Software detec tes the minimum display set UVP value : Software 520VA 0.99 temperature of the in z n) 139.5 (H) x 140 (W) x 415.5(D); Approx. 5.2kg User Manual (CD) x 1, F P.3 x 2, Flat washer x 2, M Small Screw Washe OPTIONAL ACCE PLR-CU GPIB/USB PLR-LU LAN/USB PLR-RC External Ar PLR-00 Parallel Cor PLR-00 Series Con GRA-427 Rack Moun RICA CORP. 5 F +1-909-399-0819 NOLOGY CORPOR	detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Output Hexagon nut x 2), Output g rx 1, M3 Large Screw Wash (SSORIES Interface Card Interface Card	S10VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s rounding cable x 1, M4 Sn er x 2 GTL-246 USB Cabl GTL-248 GPIB Cab GTL-215 GPIB-USE GTL-215 GPIB-USE GTL-215 GPIB-USE GRJ-1101 Modular (GRJ-1102 Modular (0.99 139.5 (H) x 210(W g 139.5 (D); Approx. 7.5 btice. PLR-SeriesGD1 tet x 1 (Hexagon head bo hall Screw Washer x 1, e (1.2m) le (2.0m) 3-HS (High-Speed) Cable (0.5m) Cable (1.5m) SSTEEK
Series Operation PPROTECTION FUNCTION OVP OCP UVP ENVIRONMENT CONDITION Operation Temp. Storage Temp. Operating Humidity Storage Humidity READ BACK TEMP. COEFFICI Voltage Current OTHER Power Consumption Power Factor Cooling Method Power Factor Cooling Method Power Factor Cooling Method Power Source Interface Analog Control Dimension & Weight ORDERING INFORM PLR 20-18 (0~20V/0~18A PLR 20-36 (0~20V/0~36A PLR 36-10 (0~36V/0~10A PLR 36-20 (0~36V/0~20A PLR 60-6 (0~60V/0~6A/2 PLR 60-12 (0~60V/0~12A obal Headquarters OOD WILL INSTRUMENT #886-2-2268-0389 F +886-2-22 ina Subsidiary OOD WILL INSTRUMENT	Up to 2 units Set range : 10% to 110% Activated when the outp Set range : 5% to 110% Activated when the outp Set range : -1V to 110% Activated when the outp 0°C ~ 40°C - 20°C ~ 60°C 30% ~ 85% RH (No dev 20% ~ 85% RH (no dev ENT 100ppm/°C 100ppm/°C 570VA 0.99 Forced cooling: Fan sp Single-phase 100VAC t RS-232C/LAN (Standa Yes 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ATION /360W) Low Noise DC /720W) Low Noise DC /720W) Low Noise DC /720W) Low Noise DC /720W) Low Noise DC (SUZHOU) CO., LTD. 68-0639 (SUZHOU) CO., LTD.	Power Supply Power Supply	Up to 2 units mes the minimum display t OVP value : Hardware of tess of minimum display CP value : Software detec tess the minimum display set UVP value : Software 520VA 0.99 e temperature of the in z n) 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2kg ACCESSORIES User Manual(CD) x 1, F P.3 x 2, Flat washer x 2, M3 Small Screw Washer PLR-QU GPIB/USB PLR-LU LAN/USB PLR-LU GPIB/USB PLR-RC External Ar PLR-00 PB/IB/USB PLR-RC External Ar PLR-00 Series Con GRA-427 Rack Mour RICA CORP. 5 F +11-909-399-0819 STRUMENT KOREA (detection resolution tion resolution e detection 1050VA 0.99 ternal heat sink 139.5 (H) x 210(W) x 415.5(D); Approx. 7.5kg Specifications sub Power Cable x 1, Rear Output Hexagon nut x 2), Output g rx 1, M3 Large Screw Wash (SSORIES Interface Card Interface Card	S10VA 0.99 139.5 (H) x 140(W) x 415.5(D); Approx. 5.2k ject to change without no t Terminal Cover x 1, Bolt s rounding cable x 1, M4 Sn er x 2 GTL-246 USB Cabl GTL-248 GPIB Cab GTL-215 GPIB-USE GTL-215 GPIB-USE GTL-215 GPIB-USE GRJ-1101 Modular (GRJ-1102 Modular (0.99 139.5 (H) x 210(W g 139.5 (D); Approx. 7.5 btice. PLR-SeriesGD1 tet x 1 (Hexagon head bo hall Screw Washer x 1, e (1.2m) le (2.0m) 3-HS (High-Speed) Cable (0.5m) Cable (1.5m) SSTEEK