



- Features :
- Interchangeable AC plugs (plug kit sold separately)
 - Universal AC input / Full range
 - No load power consumption < 0.3W
 - ErP step2 compliant
 - Meet EISA 2007 (Energy Independence and Security Act)
 - Class II power (without earth pin)
 - Protections: Short circuit / Overload / Over voltage
 - Fully enclosed plastic case
 - LED indicator for power on
 - Pass LPS
 - Approvals: UL / CUL / TUV / CB / FCC / CE / C-Tick
 - 2 years warranty



AC INLET PLUG

TYPE					
	Australian type	U.K type	European type	US type	Mix four type
ORDER NO.	AC plug-AU	AC plug-UK	AC plug-EU	AC plug-US	AC plug-MIX

SPECIFICATION

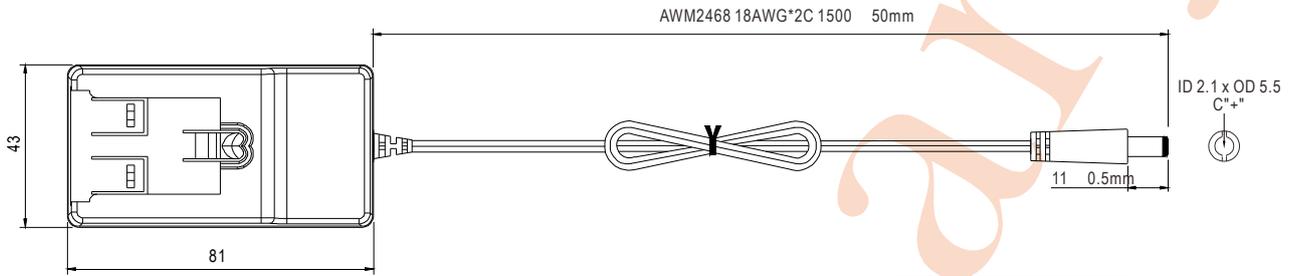
POWER SUPPLY MAIN BODY ORDER NO.	GE30I12-P1J	GE30I15-P1J	GE30I18-P1J	GE30I24-P1J	GE30I36-P1J	GE30I48-P1J
SAFETY MODEL NO.	FRA030-S12-I	FRA030-S15-I	FRA030-S18-I	FRA030-S24-I	FRA030-S36-I	FRA030-S48-I
DC VOLTAGE <small>Note.2</small>	12V	15V	18V	24V	36V	48V
RATED CURRENT	2.5A	2A	1.66A	1.25A	0.83A	0.625A
CURRENT RANGE	0 ~ 2.5A	0 ~ 2A	0 ~ 1.66A	0 ~ 1.25A	0 ~ 0.83A	0 ~ 0.625A
RATED POWER (max.)	30W	30W	30W	30W	30W	30W
RIPPLE & NOISE (max.) <small>Note.3</small>	120mVp-p	150mVp-p	180mVp-p	240mVp-p	300mVp-p	300mVp-p
VOLTAGE TOLERANCE <small>Note.4</small>	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%
LINE REGULATION <small>Note.5</small>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
LOAD REGULATION <small>Note.6</small>	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%
SETUP, RISE, HOLD UP TIME	4000ms, 100ms, 30ms / 230VAC 4000ms, 100ms, 10ms / 115VAC at full load					
VOLTAGE RANGE	90 ~ 264VAC 135 ~ 370VDC					
FREQUENCY RANGE	47 ~ 63Hz					
EFFICIENCY (Typ.)	82%	83%	84%	85.5%	86.5%	87%
AC CURRENT	0.7A / 100VAC 0.4A / 230VAC					
INRUSH CURRENT (max.)	COLD START 40A / 100VAC 80A / 230VAC					
LEAKAGE CURRENT (max.)	0.25mA / 240VAC					
OVERLOAD	110% ~ 200% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed					
OVER VOLTAGE	115% ~ 135% Protection type : Clamp by zener diode					
WORKING TEMP.	-10 ~ +50 (Refer to output load derating curve)					
WORKING HUMIDITY	20% ~ 90% RH non-condensing					
STORAGE TEMP., HUMIDITY	-20 ~ +85 , 10 ~ 95% RH					
TEMP. COEFFICIENT	0.03% / (0 ~ 50)					
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY STANDARDS	UL60950-1, CSA C22.2, TUV EN60950 -1 approved					
WITHSTAND VOLTAGE	I/P-O/P:4242VDC					
ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25 / 70% RH					
EMI CONDUCTION & RADIATION	Compliance to EN55022 class B, FCC PART 15 / CISPR22 class B					
HARMONIC CURRENT	Compliance to EN61000-3-2,3					
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A					
LIFE	2 years : 100% load 30 , 8 hours / day					
MTBF	100Khrs min. MIL-HDBK-217F (25y)					
DIMENSION	81*43*40.5mm (L*W*H)					
PACKING	134g ; 60pcs / 12.32kg / CARTON					
PLUG	Standard type P1J: 2.1 * 5.5 * 11mm turning fork type, center positive for stock ; Other type available by customer requested					
CABLE	See page2					

NOTE

- All parameters are specified at 230VAC input, rated load, 25 ~ 70% RH ambient.
- DC voltage: The output voltage set at point measure by plug terminal & 50% load.
- Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
- Tolerance: includes set up tolerance, line regulation, load regulation.
- Line regulation is measured from low line to high line at rated load.
- Load regulation is measured from 10% to 100% rated load
- Main body unit and AC inlet plug should be ordered separately ; it needs to be used along with any of the AC inlet plug.

■ Mechanical Specification

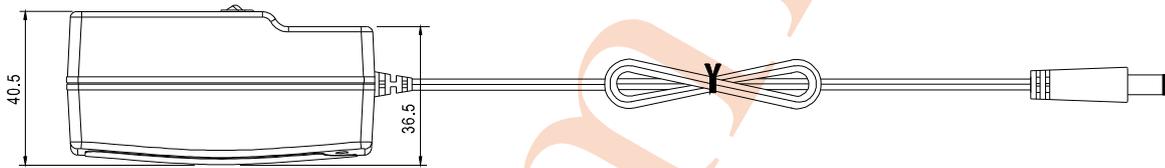
Unit:mm



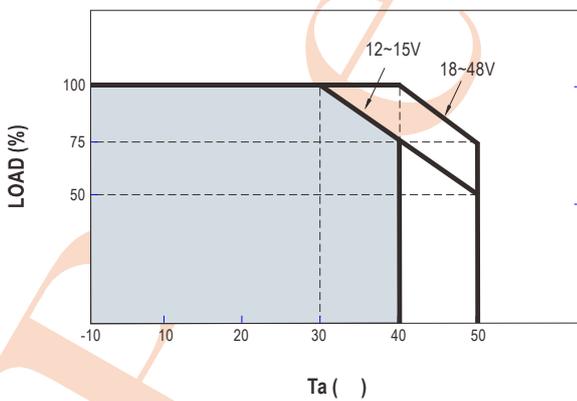
■ Plug Assignment

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+



■ Derating Curve



■ Static Characteristics

