

30W AC/DC DeskTop Li-Ion/Li-Polymer Battery Charger **FYC30 series**



★ Features:

- ⊕ Universal AC input / Full range
- ⊕ Class II power (without earth pin)
- ⊕ No load power consumption <1.0W
- ⊕ Constant current and voltage(CC,CV mode)
- ⊕ Suitable for continue load
- ⊕ For high surge current equipment
- ⊕ Protections: Short circuit / Overload / Over voltage.
- ⊕ 2 colors LED indicate for charging status
- ⊕ Fully enclosed plastic case
- ⊕ High reliability
- ⊕ Approvals: UL / CUL / TUV / CB / FCC / GS / PSE / KC / CE
- ⊕ 2 years warranty



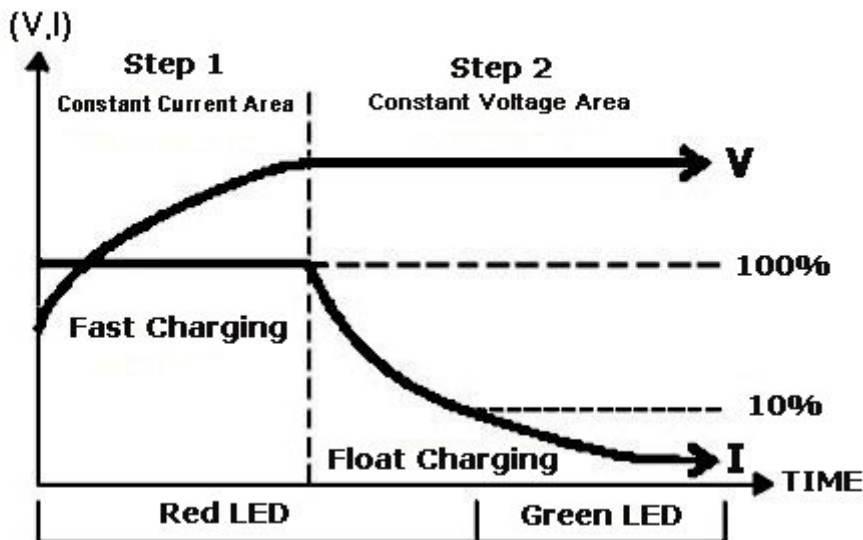
SPECIFICATION

ORDER NO.	FY0904000	FY0903000	FY1502500	FY1802000	FY2101500	FY2551500	FY2901000	
CELL COUNT	1	2	3	4	5	6	7	
OUTPUT	DC VOLTAGE SET AT	4.2V	8.4V	12.6V	16.8V	21.0V	25.2V	29.4V
	RATED CURRENT	4.0A	3.0A	2.4 A	1.8A	1.4A	1.2A	1.0A
	CURRENT RANGE	0~4A	0~3A	0~2.4A	0~1.8A	0~1.4A	0~1.2A	0~1.0A
	RATED POWER	16.8W	25.2W	30W	30W	29.4W	30W	29.4W
	RIPPLE&NOISE (Max)	120mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	CHARGING VOLTAGE RANGE	3.0~4.2V	5.4~8.4V	8~12.6V	10~16.8V	13.5~21V	15~25.2V	17.5~29.4V
	LINE REGULATION	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LED INDICATOR	RED: Charging GREEN: Charge completed/Standby						
	SETUP, RISE, HOLD TIME	200ms, 50ms, 16ms at full load						
	INPUT	VOLTAGE RANGE	90~264VAC 127~370VAC					
FREQUENCY RANGE		47~63Hz						
EFFICIENCY (Typ.)		55%	70%	82%	82%	80%	82%	80%
AC CURRENT (Typ.)		1.5A/115VAC 0.75A/230VAC						
INRUSH CURRENT(max.)		60A/230VAC						
LEAKAGE CURRENT (max.)		0.25mA/240VAC						
PROTECTION	OVERLOAD	90~110% Constant current mode and over 300% pulsing Protection type: Constant current limiting, recovers automatically after fault condition is removed						
	OVER VOLTAGE	110~135% rated output voltage Protection type: Clamp by zener diode						
	OVER TEMPERATURE	ICTj130℃ Protection type: Shut down o/p voltage, recovers automatically after temperature goes down						
	ENVIRONMENT	WORKING TEMP.	0~+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% / °C (0~50℃)						

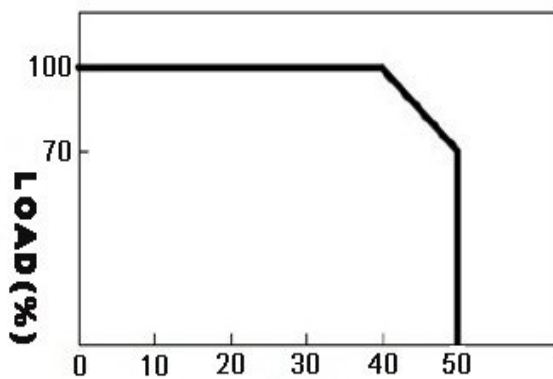
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	VIBRATION	10~500Hz, 2G 10min./1cycle, period for 60min. each along X,Y,Z axes
SAFETY & EMC	SAFETY STANDARDS	UL60950-1, CSA22.2 Approved
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC(2Pin); I/P-O/P: 1.5KVAC(3Pin)
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25 °C / 70% RH
	EMI CONDUCTION & RADIATION	Compliance to EN55022(CISPR22) Class B, FCC part 15 Class B
	HARMONIC CURRENT	Compliance to EN61000-3-2,3
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,11, Light industry level, criteria A
	OTHERS	DIMENSION
PACKING		360g; 50pcs/18kg/CARTON
CONNECTOR		5.5*2.1*10mm, center positive; Other type available by customer requested

■ Charging Curve



Derating Curve



Static Characteristics

